

Pennsylvania Department of Environmental Protection

2 Public Square Wilkes-Barre, PA 18711-0790 February 11, 2010

Northeast Regional Office

570-826-2511 Fax 570-820-4907

CERTIFIED MAIL NO.: 7008 3230 0002 4876 6912

Ex. 6 - Personal Privacy

Montrose, PA 18801

Re: Fina

Final Report Approval

Property

Well 5 – June 3, 2008 Diesel Fuel Release Site # 706901, Primary Facility # 707295,

Remediation Id #, 39259, Ex. 6 - Personal Privacy

Springville Township, Susquehanna County

Dear Mr.

I am pleased to inform you that the Final Report for the site named above has been approved.

The Department of Environmental Protection (Department) has reviewed the Final Report, dated November 3, 2009, for the property located in the Springville Township, Susquehanna County. The report was submitted by URS Corporation. The report was submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2), and constitutes a "Final Report" as defined in Chapter 3, Section 303 of Act 2.

The report was submitted to address the release of approximately 800-gallons of diesel fuel that occurred as a result of a break in a hose that supplied diesel fuel to the drill rig and booster. The release occurred on June 3, 2008 which impacted soil at the property. The report was also submitted to document the remediation of soil to the residential Statewide health standard under Act 2.

The Department approves this report for the substances identified and remediated to an Act 2 standard within the site(s) specified. Chapter 5, Section 501 of Act 2, provides the liability protection where attainment of Act 2 cleanup standard(s) is demonstrated. Cleanup liability protection provided by this chapter applies to the current and future owner or any other person who participated in the remediation, to a person who develops or occupies the site, to a successor or assign of any person to whom liability protection applies, and to a public utility to the extent the public utility performs activities on the identified site.

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CABOT-EPA 007795

Ex. 6 - Personal Privacy

The technical review of this report was conducted under the responsible charge of a Pennsylvania Licensed Professional Geologist.

Sincerely,

Ronald S. Brezinski

Program Manager

Environmental Cleanup Program

cc: Cabot Oil and Gas Corp.

Gas Search Drilling Services

Ms. Shirley Cokely, Secretary/Springville Township

Ex. 4 - CBI RS Corporation

CABOT-EPA 007796



CABOT-EPA 007797

1

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IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047

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IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047

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 URS Corporation
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

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Mr. Eric Rooney PA Department of Environmental Protection	FEB 5 - 2010
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 Ex. 4 - CBI
 URS Corporation
 501 Holiday Drive, Suite 300
 Pittsburgh, PA 15220

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February 2, 2010

VIA CERTIFIED MAIL # 7009-1410-0001-7025-3954

Mr. Eric M. Rooney Site Project Officer Pennsylvania Department of Environmental Protection 2 Public Square Wilkes-Barre, Pennsylvania 18711-0790

Subject:

Disposal Documentation - Final Report Submission -

Ex. 6 - Personal Privacy | pperty — Well #5

Primary Facility #707295, eFacts Site #706901, Remediation #39259

Ex. 6 - Personal Privacy

Springvine Township, Susquehanna County, Pennsylvania

Dear Mr. Rooney:

In response to your request dated January 4, 2010, on behalf of GasSearch Drilling Services Corporation (GDS), please find the enclosed documentation to complete the Final Report for the property, Well #5 described above:

- Disposal documentation for diesel and absorbents (28 containers); and
- Disposal documentation for impacted water and sediment collected in a frac tank (3,634 gallons).

Please let me know if you need any additional information.

Yours truly,

URS CORPORATION

Ex. 4 - CBI Jr., Ph.D., P.G.

Principal Geologist

Enclosures

cc:

Ex. 4 - CBI Search Drilling Services Corporation Cabot Oil & Gas Corporation

Ms. Jennifer Means, Program Manager
Pennsylvania Department of Environmental Protection
Oil and Gas Management Program
Northcentral Regional Office
208 West Third Street, Suite 101
Williamsport, PA 17701-6448
Certified Mail # 7009-1410-0001-7025-3985

URS Corporation Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220 412-503-4700

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Pennsylvania Department of Environmental Protection

2 Public Square Wilkes-Barre, PA 18711-0790 January 4, 2010

Northeast Regional Office

570-826-2511

Fax 570-820-4907

CERTIFIED MAIL NO.: 7008 3230 0002 4876 5977

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Montrose, PA 18801

ECP - Special Projects - Act 2
Comments on Final Report

[Selection of the State of

Springville Township, Susquehanna County

Dear Mr. Teel:

The Department of Environmental Protection has reviewed the Final Report submitted on November 5, 2009 for the above-mentioned property. This letter is being provided to you to officially document the Department's response as per Section 303(h)(3) of the Land Recycling and Environmental Remediation Standards (Act 2). Based on the Department's review, we have the following comments:

• In order to confirm that the contamination at the site was properly disposed of, the Department is requesting a copy of the disposal manifests for the free phase product and contaminated groundwater removed from the site.

In order for your site to be in compliance with applicable requirements of Act 2, these items must be addressed. The Department is willing to work with you to develop an approvable submittal.

Thank you for your cooperation in working with the Department in the remediation of this site. If you need additional information or have any questions, please do not hesitate to call me at 570-830-3028.

Sincerely,

Eric M. Rooney Geologic Specialist

Environmental Cleanup Program

Reviewer Oversight:

Thomas M. Thompson, P.G. Professional Geologist Manager Environmental Cleanup Program

cc. Cabot Oil and Gas Corp.Gas Search Drilling Services

Ms. Shirley Cokely, Secretary/Springville Township

Ex. 4 - CBI /URS Corporation

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URS

FILE COPY

November 3, 2009

Mr. Eric M. Rooney Site Project Officer Pennsylvania Department of Environmental Protection 2 Public Square Wilkes-Barre, Pennsylvania 18711-0790

Subject:

Ex. 6 - Personal Privacy - Well #5

Primary Facility #707295, eFacts Site #706901, Remediation #39259

Ex. 6 - Personal Privacy

Springville Township, Susquehanna County, Pennsylvania

Dear Mr. Rooney:

On behalf of GasSearch Drilling Services Corporation (GDS), please find a check in the amount of \$250 and the Final Report describing the remedial activities, demonstration of attainment of the Statewide Health Standard, and request for relief from liability under Pennsylvania Act 2 implemented at the Teel Property Well #5 site in Springville, Pennsylvania.

Please note that a copy of the Notice of Intent to Remediate (NIR) and notification of submission of the NIR have been submitted to the Springville Township Supervisors. Proof of publication of the newspaper legal advertisements for submission of the NIR and the Final Report will be sent upon receipt from the *Susquehanna Independent Weekender*.

Should there be any questions or should you require further information regarding this submission, please contact me at 412-503-4602 if you have any questions.

Yours truly,

URS CORPORATION

Ex. 4 - CBI

Principal Geologist

Enclosure: Final Report (2 copies)

cc: Ex. 4 - CBI GasSearch Drilling Services Corporation
Ex. 4 - CBI Cabot Oil & Gas Corporation

URS Corporation Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220 412-503-4700

2530-FM-BWM0023 Rev. 1/2004

Section 1 - Site Identification

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

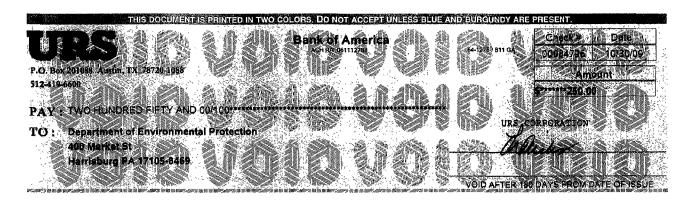
Land Recycling Program Transmittal Sheet for Plan/Report Submission

Instructions: Please provide all requested information in each of the four sections. This transmittal sheet shall accompany any plan/report submitted to the Department under the Land Recycling Program. Proper completion of the Transmittal Sheet will assist Department review and may avoid a finding of plan/report deficiency. The Facility ID number can be obtained from the Department's Environmental Cleanup Program in the region where the site is located.

Site Name Ex. 6 - Personal Privacy 5	
Site Address Ex. 6 - Personal Privacy Springville, PA 1	8801
Municipality and County Springville Township, Sus	quehanna County
Section 2 - Remediation Standard Pla	an/Report Fees
Identify the remediation standard being pursued Department fees follow each type of plan/report.	and the type of plan/report being submitted. Please note required
Check the relevant standard and the type of plan/re	eport being submitted:
☐ Background Standard Final Report (\$250 fee)	Statewide Health Standard Final Report (\$250 fee)
☐ Site-Specific Standard	☐ Special Industrial Area
Remedial Investigation Report (\$250 fee)	☐ Work Plan (no fee)
Risk Assessment Report (\$250 fee)	☐ Baseline Environmental Report (no fee)
☐ Cleanup Plan (\$250 fee)	
☐ Final Report (\$500 fee)	

Section 3 - Municipal/Public Notice Confirmation

There are two stages in the Land Recycling Program who information associated with each stage. You will be asked to these notification requirements has been included with this sub-	confirm that information establishing your compliance with
Check here if you are planning to meet the Background been submitted within 90 days of the release.	or Statewide Health Standard and your Final Report has
Indicate date of release here June 3, 2008	
No further completion of this section is required if your 90 day time frame.	Final Report for these two standards conforms to the
Stage 1 - Notice of Intent to Remediate (NIR)	
	y of your NIR was provided to each municipality where your and a copy of a signed certified mail receipt slip from the
Check here to confirm a copy of a proof of publication do been included with this submission.	cument from a newspaper serving the area of your site has
Check here to indicate that a Site-Specific Standard or a was received for development of a public involvement pla public comments, which were submitted, and your response	n. The plan/report submission shall include municipality and
Stage 2 - Cleanup Plan/Report Submission	
October 29, 2009 Place date here that each municipal the three remediation standards.	ity was notified of any plan or report submitted under any of
The Susquehanna Independent Weekender	November 4, 2009 Place the newspaper name
and date that your notice of your plan/report submission was p	ublished.
Section 4 - Project Contact	
On the lines below, place the name, company, and busines regarding this submission.	•
Ex. 4 - CBI Contractor/Remediator	Ex. 4 - CBI P.E., Ph D., Consultant
GasSearch Drilling Services Corporation	URS Corporation
304-562-0758	412-503-4602



#OOO84796# #O\$1112788# 3359 162735#

CABOT-EPA 007812

FINAL REPORT

GASSEARCH DRILLING SERVICES CORPORATION Ex. 6 - Personal Privacy #5 WELLSITE SPRINGVILLE TOWNSHIP, PENNSYLVANIA

Prepared for:



GasSearch Drilling Services Corporation 2399 Virginia Avenue Culloden, WV 25510

Prepared for:



URS Corporation 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

OCTOBER 2009

CABOT-EPA 007813

FINAL REPORT

GASSEARCH DRILLING SERVICES CORPORATION #5 WELLSITE SPRINGVILLE TOWNSHIP, PENNSYLVANIA

Prepared for:



GasSearch Drilling Services Corporation 2399 Virginia Avenue Culloden, WV 25510

Prepared by:



URS Corporation 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Ex. 4 - CBI

UR\$/Corporation Amanda Bayne Project Geologist URS Corporation
James Pinta, Jr., Ph.D., PG
Principal Geologist
PG-000701-G

OCTOBER 2009

CABOT-EPA 007814

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FINAL REPORT SUMMARY

Cabot Oil & Gas Corporation (Cabot) operates the leased wellsite designated as in Springville Township, Susquehanna County, Pennsylvania (Site) (**Figure 1**). The Site, leased from Ex. 6 - Personal Privacy is a portion of a larger tract that consists of approximately 800 acres and is leased by Cabot to explore for and produce natural gas.

On June 3, 2008 at about 6:00 AM, the GasSearch Drilling Services Company (GDS) drilling crew found a fuel line leaking on the drillpad of Teel #5 wellsite. At this time, GDS began the containment and cleanup process. Upon inspection, a break in the hose that supplied diesel fuel to the drill rig and booster was noted and a small area of diesel staining was observed in the riprap. It was also noted that diesel was releasing from the pad at about the elevation of the geotextile, down the hillside (and into the ground surface), seeping from the hillside into a drainage ditch along Herb Button Road, flowing into a culvert under the road, and onto a hillside that drained to a flooded area created by a beaver activity (dams).

The rig was immediately shut down and the rig crew began the containment and clean up process. An emergency response team was dispatched to the location. Interim remedial measures were implemented to contain the release and recover free product. Absorbent materials were placed on the impacted area by the crew. About 700 gallons of diesel was recovered within 2 days of the release.

An application of Petrox® & water mixture consisting of activated microbes as bioaugmentation of naturally occurring microbes and nutrients to promote microbial activity and lime were applied on the impacted areas.

Sampling to characterize Site conditions was conducted after completion of these remedial response actions. Initial results indicate that these actions were effective in remediating impacted areas; however, additional remediation was required in the area below the seep from the drillpad. Attainment of the Statewide Health Standard (SHS) residential, used aquifer (R-U) Medium-Specific Concentrations (MSCs) was demonstrated for the drillpad for constituents on the Pennsylvania Short List for Diesel (constituents of potential concern – [COPCs]).

A second application of Petrox® & water mixture consisting of activated microbes as bioaugmentation of naturally occurring microbes and nutrients to promote microbial activity and lime were applied on the impacted areas. The seep area of the drillpad was excavated and potentially impacted soil was visually evaluated and sampled to evaluate for diesel constituents during wellsite recovery and restoration. Soil samples were collected, analyzed, and evaluated for attainment with Act 2 cleanup standards. The results indicated the cleanup attained compliance with the SHS R-U MSCs for all COPCs.

Soil samples in the area that was flooded were collected, analyzed, and evaluated for attainment with Act 2 standards. The results indicated the cleanup attained compliance with the SHS R-U MSCs for all COPCs.

GDS is requesting Relief from Further Liability Protection (ROL) from the Pennsylvania Department of Environmental Protection (PADEP) for GDS, Cabot, the landowners Cleo and Gloria Teel, and all subsequent owners and operators of the remediated area in accordance with Pennsylvania's Land Recycling Act (Act 2) according to the regulatory requirements of 25 PA Code Chapter 250.

1.0 INTRODUCTION

Cabot Oil & Gas Corporation (Cabot) operates the leased wellsite designated as Teel #5 in Springville Township, Susquehanna County, Pennsylvania (Site) (**Figure 1**). The Site, leased from Cleo and Gloria Teel, is a portion of a larger tract that consists of approximately 800 acres and is leased by Cabot to explore for and produce natural gas.

The Teel #5 wellsite (**Figure 2**) was constructed according to an approved "Erosion and Sedimentation Control Plan" dated October 8, 2007. The Site was constructed on a moderately west-sloping hillside covered with brush and woods (**Appendix A** – **Photograph 1**). The Site is situated immediately east of Herb Button Road, a dirt and gravel road, below which is a flooded area created by beaver activity (dams) in drainage areas that drain to Meshoppen Creek (designated as Cold Water Fishery [CWF]).

On June 3, 2008 at about 6:00 AM, the GasSearch Drilling Services Company (GDS) drilling crew found a fuel line leaking. At this time, GDS began the containment and cleanup process. Upon inspection, a break in the hose that supplied diesel fuel to the drill rig and booster was noted and a small area of diesel staining was observed in the riprap (Appendix A – Photograph 2). It was also noted that diesel was releasing from the pad at about the elevation of the geotextile, down the hillside (and into the ground surface), seeping from the hill side into a drainage ditch along Herb Button Road (Appendix A – Photograph 3), flowing into a culvert under the road (Appendix A – Photographs 4, 5, and 6), onto a hillside that drained to a flooded area created by a beaver dam (Appendix A – Photographs 7 and 8).

GDS immediately implemented interim remedial measures to contain and recover the released diesel. Mr. Denny Harton, GDS, notified the National Response Center (NRC) at 1-800-424-8802 and was given a confirmation number of 873-025. Mr. Harton also notified the Pennsylvania Department of Environmental Protection and spoke to Mr. Eric Rooney. Mr. Rooney was on the release location by the time that Mr. Harton arrived on June 1, 2008. Mr. Rooney also observed the soil sampling that took place on June 19, 2008. The rig was immediately shut down and the rig crew began the containment and clean up process. CGE Environmental Services (CGE) (PO Box 175, Montrose, PA 18801) was called and an emergency response team dispatched to the location. Absorbent materials were placed on

the contaminated area by the rig crew, CGE, Cabot, and utility pipeline employees. Mr. Gene Rickard of the PADEP visited the Site on June 5, 2008 and issued a General Inspection Report (Non-NPDES).

On June 18, 2008 and again on July 18, 2008, GDS applied about 55 gallons of Petrox® & water mixture consisting of activated microbes as bioaugmentation of naturally occurring microbes and nutrients to promote microbial activity on the drill pad wellsite, seep area on the side of the hillside, in the drainage ditch along the road, the underflow dam, and the standing water in the flooded area below the drillpad. About ½ ton of lime was also applied to the areas at both times the Petrox® was applied.

GDS conducted a preliminary Site investigation in the diesel release area to evaluate the nature and extent of impacted soil and groundwater on and beneath the surface at the Site. Subsequent to Site remedial activities, an additional assessment was conducted to document the effectiveness of these activities. The assessments were performed with the objective of seeking liability protection under Pennsylvania Act 2 (PA Code 25, Chapter 250 et seq.). GDS is seeking Relief from Further Liability (ROL) protection under Pennsylvania Act 2 (PA Code 25, Chapter 250 et seq.). A Notice of Intent to Remediate (NIR) and Newspaper Publication are included in **Appendix B**.

Analytical results collected during the Site investigation activities and subsequent to Site remediation activities (**Appendix C**) were evaluated relative to Act 2 Statewide Health Standards (SHS) residential, used aquifer (R-U) Medium Specific Concentrations (MSCs).

The remainder of this document describes the data collection methods used during various phases of Site characterization and remediation, describes remedial activities to address the presence of diesel constituents in the soil at the Site, presents the results of findings of Site characterization activities, and demonstrates attainment with the SHS R-U MSCs for diesel constituents at all areas impacted and subsequently remediated at the Site.

1.1 OBJECTIVES

In accordance with 25 PA Code Chapter 250, the objectives of the Remedial Investigation and Final Report are to:

- Provide sufficient physical data through field investigations to determine if a release
 has occurred and, if so, what constituents of potential concern (COPCs) are involved
 and the extent of migration, if any, of those COPCs into surface water, groundwater,
 soil, or sediment;
- Evaluate and define any source(s) of impact;
- Evaluate whether interim remedial actions are necessary to abate an imminent hazard to human health or the environment and describe the remedial actions conducted to minimize impact to the environment;
- Determine, from measurements at the Site, values for input parameters, including hydraulic conductivity, source dimensions, hydraulic gradient, and groundwater table fluctuations necessary for fate and transport analysis;
- Develop a Conceptual Site Model (CSM);
- Provide an evaluation of potential exposure pathways and potentially exposed populations;
- Provide sufficient information to draw conclusions regarding the attainment of the clean up standards selected and, if required, development of warranted remedial options for each medium of concern.

1.2 SCOPE OF WORK PERFORMED

Initial remedial activities were implemented to recover as much diesel product as was feasible. The initial remediation effort recovered the majority of liquid diesel within 2 days of the release.

Petrox® & water mixture along with lime was applied to potentially impacted areas on the drillpad and along the pathway of migration of the diesel in the vicinity of the wellsite.

Soil, sediment and surface water samples were collected to evaluate the effectiveness of remedial activities on the drillpad, seep area on the side of the hillside, in the drainage ditch along the road, the underflow dam, and the standing water in the flooded area below the drillpad.

A second application of Petrox® & water mixture along with lime was applied to potentially impacted areas on the wellsite and along the pathway of migration of the diesel.

The seep area of the drillpad was excavated and potentially impacted soil was visually evaluated and sampled to evaluate for diesel constituents during wellsite recovery and restoration. Soil samples were collected, analyzed, and evaluated for attainment with Act 2 cleanup standards.

Soil samples in the area that was flooded were collected, analyzed, and evaluated for attainment with Act 2 standards. The results indicated the cleanup attained compliance with the SHS R-U MSCs for all COPCs.

Once all documentation was assembled and evaluated, this Final Report was compiled to document Site conditions, demonstrate attainment compliance with SHS R-U MSCs for all COPCs, and request ROL from PADEP for GDS, Cabot, the landowners Cleo and Gloria Teel, and all subsequent owners and operators of the remediated area in accordance with Pennsylvania's Land Recycling Act (Act 2) in accordance with the regulatory requirements of 25 PA Code Chapter 250.

2.0 SITE DESCRIPTION

2.1 LOCATION

The Site is part of an 800 acre parcel, a wooded/vegetated area located along Herb Button Road in Springville Township, Susquehanna County, Pennsylvania (Figure 1). The parcel is leased by Cabot, from Cleo and Gloria Teel for the exploration and production of natural gas. The Teel #5 wellsite (Figure 2) was constructed according to an approved Erosion and Sedimentation Control Plan dated October 8, 2007. The wellsite was constructed on a moderately west-sloping hillside covered with brush and woods. The wellsite is situated immediately east of Herb Button Road, a dirt and gravel road, below which is an area that is intermittently flooded due to beaver dams in drainage areas that flow to Meshoppen Creek (designated as Cold Water Fishery (CWF)).

The wellsite (**Appendix B** – **Photograph 1**) was graded to slope gently to the west, covered with a geotextile, which was covered with about 1 foot (') of riprap to provide a working surface to construct the well.

2.2 SITE HISTORY

On June 3, 2008 at around daylight (6:00 AM) the GDS drilling crew found a fuel line leaking. Upon inspection, a break in a hose that supplied diesel fuel to the drill rig and booster was noted and a small area of diesel staining was observed in the riprap (Appendix B – Photograph 2). It was also noted that diesel was releasing from the pad at about the elevation of the geotextile, down the hillside (and into the ground surface), seeping from the hill side into a drainage ditch along Herb Button Road (Appendix B – Photograph 3), flowing into a culvert under the road (Appendix B – Photographs 4, 5, and 6), and onto a hillside that drained to the flooded area created by a beaver dam (Appendix B – Photographs 7 and 8). At this time, the cleanup and containment process began.

GDS immediately implemented interim remedial measures to contain and recover the released diesel. Mr. Denny Harton of GDS notified the National Response Center (NRC) at 1-800-424-8802 and was given a confirmation number of 873-025. Mr. Harton also notified the PADEP and spoke to Mr. Eric M. Rooney. Mr. Rooney was on the release location by the time that Mr. Harton arrived on-site on June 3, 2008. Mr. Rooney also observed the soil

sampling that took place on June 19, 2008. The rig was immediately shut down and the rig crew began the containment and clean up process. CGE Environmental Services (CGE) (PO Box 175, Montrose, PA 18801) was called and an emergency response team dispatched to the location. Absorbent materials were placed on the contaminated area by the rig crew, CGE, Cabot, and utility pipeline employees. Mr. Gene Rickard with the PADEP visited the Site on June 5, 2008 and issued a General Inspection Report (Non-NPDES).

2.3 REMEDIAL ACTIVITIES AND REMEDIAL INVESTIGATION ACTIVITIES

Interim remedial actions and remedial investigation activities have included the following:

- Immediate measures to eliminate the source of the release at the hose;
- Mobilization of about 30 personnel and equipment to respond to the release (GDS rig crew, CGE, Cabot, and utility pipeline employees). GDS maintained contact with Mr. Rooney and Mr. Rickard (PADEP Contacts) throughout the process of release cleanup;
- Flooding of the drill pad at the source of the release to prevent infiltration of diesel
 into the ground below the pad. GDS estimates about 65,000 gallons of water (over a
 period of several days) was used to flush the pad area and pathway down to the
 flooded area:
- Implementation of measures (construction of soil dams) to provide temporary containment of diesel in the flooded area; GDS estimates that the entire release was contained by 8:30 – 9:00 AM on June 3, the morning of the release – about 3 hours after the discovery of the release;
- Deployment of required booms and absorbent pads to recover the diesel from the flooded area, that was covered with about 1 inch layer of diesel;
- Product skimmers and a vac truck were used to recover gross product in the flooded area on June 3, 2008 and from the drill pad area on June 4, 2008;
- Progressive recovery of released diesel from the flooded area moving upgradient to the drill pad, proceeding from the flooded area to the underflow dam, along the drainage ditch, to the seep area on the wellsite hillside, to the drill pad itself;
- Recovery in the vicinity of the release area on the wellsite consisted of excavation of three trenches (Figure 3) to collect product flushed from the release area. Trenches

- extended to a depth of about 10° 18° below ground surface (bgs) and were used to absorb diesel as it floated on the perched water used to flood the area;
- About 5,050 pounds of diesel and absorbent material was recovered in the first 2-3
 days (Appendix D) assuming a specific gravity of 0.86 and neglecting the weight of
 the absorbent material, this indicates about 700 gallons of diesel was recovered;
- By the end of the day on June 5, 2008, all visible diesel had been removed from the flooded area and remediation efforts had progressed upgradient toward the drill pad;
- On June 18, 2008 and again on July 18, 2008, GDS applied about 55 gallons of Petrox® & water mixture on the drill pad wellsite, seep area on the side of the hillside, in the drainage ditch along the road, the underflow dam, and the standing water in the flooded area below the drillpad. About ½ ton of lime was also applied to the areas at both times the Petrox® was applied.
- Initial Remedial Investigation sampling (Figure 2 Table 1) was conducted on June
 19, 2008 and on June 27, 2008 to evaluate Site conditions, consisting of:
 - Excavation of 5 soil test pits in the immediate vicinity of the release and collection of 6 samples from the test pits;
 - o Sampling soil below two seeps on the hillside of the drillpad;
 - Sampling soil in the drainage swale along Herb Button Road;
 - Sampling soil on the hillside below the underflow catch basin east of Herb Button Road;
 - Sampling soil near the interface of the water level in the flooded area; and
 - Sampling surface water in the flooded area and about 4,000 feet downgradient of the impacted area.
- During drillpad reclamation and recovery activities (October 2008), the seep area of the drillpad (Figures 3 and 4) was excavated and potentially impacted soil was placed on visqueen (about 10 yds³ – Figure 5):
 - Confirmational soil samples (8 total) were collected on October 9, 2008 and analyzed to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards (Figure 5 – Table 2);
 - o Potentially impacted soil was stockpiled, visually evaluated and sampled (4 samples) on October 9, 2008 to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards and evaluated for management options(Figure 5 Table 2):

- On October 9, 2008, four (4) additional confirmational soil samples were collected in the drainage swale along Herb Button Road, and four (4) additional confirmational soil samples were collected from the hillside below the underflow dam and analyzed to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards (Figure 5 – Table 2); and
- On May 12, 2009, nine (9) additional confirmational soil samples were collected in the
 area that was flooded, visually evaluated, and analyzed to evaluate the effectiveness
 of remedial efforts and attainment with Act 2 cleanup standards (Figure 6 Table 3).

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

3.1 SITE SOILS/SURFICIAL GEOLOGY

The soils underlying the Site belong to the Wellsboro very stony silt loam, 25 to 50 percent slopes (WsF) and the Lordstown and Oquaga very stony silt loams, 30 to 70 percent slopes (LsF) soil series. Wellsboro stony silt loam is mapped as occupying the western portion of the Site adjacent to Herb Button Road while the Lordstown and Oquaga stony silt loams occupy the eastern portion of the Site. Based on published sources, the following soil series descriptions have been mapped at the Site:

WsF - Wellsboro very stony silt loam, 25 to 50 percent slopes. The Wellsboro series consists of very deep moderately well and somewhat poorly drained soils formed in till derived from red sandstone, siltstone, and shale. Slope ranges from 0 to 50 percent. Permeability is moderate in the surface and upper subsoil layers and slow or very slow in the lower subsoil and substratum.

LsF – Lordstown and Oquaga very stony silt loams, 30 to 70 percent slopes. The Lordstown series consists of moderately deep, well drained soils formed till and cryoturbated material derived from siltstone and sandstone on bedrock controlled landforms of glaciated dissected plateaus. They are nearly level to very steep soils on hillsides and hilltops in glaciated bedrock controlled uplands. Slope ranges from 0 to 90 percent. The Oquaga series consists of moderately deep, somewhat excessively drained soils formed in a thin mantle of till over sandstone, siltstone, and shale bedrock on nearly level to very steep uplands. Slope ranges from 0 to 70 percent. Permeability is moderate.

3.2 SURFACE WATER

There is a perennial or intermittent water body adjacent the Site that was impacted by the diesel release; however, immediately east of Herb Button Road, a dirt and gravel road, an area that is intermittently flooded due to beaver activity (dams) in drainage areas that flow to Meshoppen Creek is present. Meshoppen Creek, a tributary of the Susquehanna River, is located approximately 500 feet east of the Site. The Meshoppen Creek flows south toward Susquehanna River.

3.3 REGIONAL GEOLOGY

The Site is located at approximately 1,060 ft amsl (above mean sea level) in the **Glaciated Low Plateau Section of the Appalachian Plateaus Province** physiographic province. The Glaciated Low Plateau Section includes an area of diversified topography in northeastern Pennsylvania. The topography consists of rounded hills and broad to narrow valleys all of which have been modified by glacial erosion and deposition. Swamps and peat bogs are common in the area. The area reflects the interplay between bedrock of various types, mainly sandstones and siltstones, and glacial erosion and deposition. The more erosion-resistant rocks form the hills, while the less erosion-resistant rocks occur in the valleys. Glacial deposits, mainly glacial till or sand and gravel, may occur anywhere, but are found mainly in the valley bottoms and margins (DCNR).

3.4 REGIONAL HYDROGEOLOGY

The local hydrogeology at the Site is typical of the regional hydrogeology of the Low Glaciated Section of the Appalachian Plateau Physiographic Province. The uppermost aquifer is typically unconfined and within unconsolidated glacial till. The till in this area is typically more discontinuous than in the northwestern portion of the state. Some of these soils have a fragipan at shallow depth and therefore are somewhat poorly to poorly drained. The surface texture of these soils is predominantly silt loam. The landscape is undulating and the erosion potential is low to moderate. Rock fragments are common in the soils of this area. Some of the soils have very low root zone available water-holding capacity due to their limited rooting depth. The growing season is short due to the elevation and northern latitude.

4.0 SELECTION OF CONSTITUENTS OF POTENTIAL CONCERN AND SELECTION OF REMEDIATION STANDARDS

Based on the observed release of diesel fuel and the results of the remedial investigation, COPCs at the Site are associated with diesel fuel and are characterized by the Pennsylvania Short List for Diesel Fuel (TGM, 2002). Site media were evaluated for the following analytes:

Surface Water:

benzene, cumene, ethylbenzene, methyl tert-butyl ether (MTBE), naphthalene, toluene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB.

Soil:

benzene, cumene, ethylbenzene, methyl tert-butyl ether (MTBE), naphthalene, toluene, 1,2,4-TMB, and 1,3,5-TMB.

The following analytes were detected at the Site:

Surface Water:

No analytes were detected above reporting limits.

Soil:

Analytes detected include: benzene, cumene, ethylbenzene, naphthalene, toluene, 1,2,4-TMB and 1,3,5-TMB. The only analyte from the Pennsylvania Short List for Diesel parameters not detected at the Site is MTBE.

The selected remediation standard for demonstration of attainment to receive ROL is the SHS R-U MSCs, as specified in 25 PA Code Chapter 250.

Table 1 summarizes the results for the initial sampling for the remedial investigation after the diesel release, and initial recovery of product and initial application of Petrox[®] and lime. **Table 2** summarizes the results for the second round of sampling after the second application of Petrox[®] and lime. **Table 3** summarizes the results for the basin samples collected during the dry season.

5.0 REMEDIAL INVESTIGATION, SITE REMEDIATION AND CONFIRMATIONAL SAMPLING

URS Corporation (URS) mobilized to the Site on June 18, 2008 and was on-site on June 19, 2008. Dr. James Pinta, Jr. and Mr. Rick Chapman conducted the initial Site inspection and sampling activities. A subsequent Site visit and surface water sampling Site visit was conducted by Mr. Alan Hermely and Mr. Chris Cole of URS on June 27, 2008.

The purpose of the sampling was to evaluate Site conditions (soil and surface water) in the vicinity of the release and pathway of migration for potential impacts by COPCs after initial product recovery and after initial application of Petrox® and lime. While on-site, efforts were made to evaluate the pathways of migration for impacts and to delineate the potential impacts to environmental media, including soils, sediments, and surface water.

Ten soil and sediment samples were collected using Terracore (MeOH/SBS) kits supplied by Pace Analytical Services, Inc. (Pace) in Greensburg, PA, a NELAC accredited laboratory. Three surface water samples were collected using preserved 40-ml vials supplied by Pace. All samples were analyzed for the Pennsylvania Short List for diesel products as updated in March 18, 2008. Analytical results are summarized in **Table 1**, sampled locations are indicated on **Figure 2**, and analytical reports are provided in **Appendix C**.

Initial Remedial Investigation samples were collected as follows:

- Sample #1 Area of the release, 0 2' bgs (Test Pit #1, 37' north of Teel#5 wellhead);
- Sample #2 Area of the release, 4' 5' bgs (Test Pit #1, 37' north of Teel#5 wellhead);
- Sample #3 Downgradient of the release about 35' west of Test Pit#1, 0 − 2' bgs;
- Sample #4 North of Test Pit#1 (18' north of Test Pit#1), 0 2' bgs;
- Sample #5 Seep area immediately at level of Drill Pad (geotextile) on hillside sloping down to Herb Button Road (surface sample);
- Sample #6 Test Pit#4 (10 'south of release area), 0 2' bgs;
- Sample #7 Test Pit#5 (10' east of Test Pit#1), 0 2' bgs;

- Sample #8 Active seep (sheen observed) near the drainage along Herb Button Road (surface);
- Sample #9 sediment in drainage (about 5' below the level of the road, about 15' from the road) below the underflow dam containing water from culvert underneath Herb Button Road;
- Sample #10 Sediment at the interface between surface water and the shoreline in the flooded area southwest of the release area.
- Surface water sample #1 (Cabot-01) collected from near the west shore of the flooded area about 20 feet south of the release pathway entering the flooded area;
- Surface water sample #2 (Cabot-02) collected from near the west shore of the flooded area about 100 feet south of the release pathway entering the flooded area;
- Surface water sample #3 (Cabot-03) Collected from Meshoppen Creek about 4,000 feet downgradient of the release pathway entering the flooded area.

Test pits in the drillpad area indicated the upper 1 ft. of the pad was covered with riprap underlain by a geotextile fabric (**Appendix A** and **Photographs 24, 25,** and **26**). At the time of the sampling activities, sediments above the geotextile were saturated to moist, while sediments below the geotextile were damp to moist. Surface samples along the pathway of migration of the diesel release and at seeps were typically collected from the upper portion of the area sampled, typically no deeper than 0-6" bgs.

The results (**Table 1**) indicated that remedial efforts were successful in minimizing impacts of COPCs to the Site. Minor exceedences of the SHS R-U MSCs for 1,2,4-TMB and 1,3,5-TMB in samples in the drainage swale along Herb Button Road, samples on the hillside below the underflow catch basin, and in the basin of the flooded area indicated the need for additional remediation.

A second application of Petrox[®] and lime was applied on July 18, 2008. A follow-up sampling visit was coordinated with drillpad reclamation and recovery activities being conducted by GDS. During drillpad reclamation and recovery activities (October 2008), the seep area of the drillpad (**Figures 4** and **5**) was excavated and potentially impacted soil was placed on visqueen (about 10 yds³ – **Figure 5**). Confirmational soil samples (8 total – Soil Sample in Excavator #1 through Soil Sample in Excavator #8) were collected on October 9,

2008 and analyzed to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards for Site COPCs (**Figure 5 – Table 2**). Potentially impacted soil was stockpiled and visually evaluated and sampled (4 samples – Soil Sample #1 through Soil Sample #4) on October 9, 2008 to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards for Site COPCs (**Figure 5 – Table 2**), and evaluated for management options. In addition, four (4) additional confirmational soil samples (Road Drainage #1 through Road Drainage #4) were collected in the drainage swale along Herb Button Road, and four (4) additional confirmational soil samples (Underflow Dam #1 through Underflow Dam #4) were collected from the hillside below the underflow dam and analyzed to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards (**Figure 5 – Table 2**).

The results (**Table 2**) indicated all samples were in attainment of their respective SHS R-U MSCs for all COPCs.

On May 12, 2009, nine (9) additional confirmational soil samples (TB-1 through TB-9) were collected in the area that was flooded, visually evaluated, and analyzed to evaluate the effectiveness of remedial efforts and attainment with Act 2 cleanup standards (**Figure 6** – **Table 3**). Soils consisted of silty brown-black (organic rich) clay. No samples were visually stained; however two samples (TB-8 and TB-9) had readings >0 on the photo-ionization detector (PID). However, the analytical results (**Table 3**) indicated all samples were in attainment of their respective SHS R-U MSCs for all COPCs.

Groundwater beneath the Site is not a medium of concern because the diesel migration occurred by gravity flow downhill coupled with immediate remedial response, providing no opportunity for diesel to infiltrate groundwater.

6.0 FATE AND TRANSPORT ANALYSIS

The diesel release initially flowed onto the constructed drillpad where impacts were limited to the surficial materials above the geotextile. Diesel migrated along the geotextile to the edge of the constructed drillpad, flowed down the hillside of the constructed drillpad and onto the ground surface into a drainage ditch along Herb Button Road, flowed into a culvert under the road, and onto a hillside that drained to a flooded area created by beaver activity (dams). Initial response to the diesel release was immediate and impacted areas were predominantly constructed surfaces (drillpad, road drainage swale, etc.), therefore, diesel product had little opportunity to infiltrate these materials. Similarly, the flooded area below Herb Button Road did not encounter prolonged contact of diesel product with sediments in this area. In addition, rapid response contained the diesel impacts to a limited area in the flooded area.

For these reasons, diesel product migration was limited to gravity flow over the surface of the impacted area, with minimal infiltration (less than 3 inches below ground surface in these areas). Flushing the product from the elevated drillpad to the flooded area (where the product was recovered) and subsequent application of Petrox® and lime contributed to the effective remediation of the Site.

URS has determined that no impacts to Meshoppen Creek occurred based on surface water samples taken at the Site. All areas impacted by the diesel release have been remediated to achieve attainment with the SHS R-U MSCs for all Site COPCs.

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7.0 SITE CONCEPTUAL MODEL

Based upon the data acquired during the Remedial Investigation activities, Site surface soils were found to be minimally impacted in areas where the diesel release occurred. The nature and extent of the release was evaluated using the pathways of migration observed by Site personnel at the time of the release. Rapid response did not allow penetration of diesel product to depths greater than about 6 inches bgs in the areas impacted by the release.

Based on soil sampling results, soil impact has been delineated both vertically and horizontally at the Site. Groundwater was not expected to be impacted. The release of the diesel from the fuel line associated with drilling operations, and subsequent flow of diesel product downhill to the flooded area impacted a relatively narrow pathway of migration that was limited to the surface and near-surface soils (0 - 6') bgs and standing water present in the flooded area below Herb Button Road.

Three rounds of soil samples and two rounds of surface water samples were collected throughout the Remedial Investigation and subsequent remediation activities (**Figures 2, 4, 5,** and **6** and **Tables 1, 2,** and **3**).

Remedial activities remediated Site media (soil and surface water) so that attainment with the SHS R-U MSCs for all Site-related COPCs has been demonstrated (Section 10.0)

8.0 ECOLOGICAL SCREENING ASSESSMENT

In accordance with 25 PA Code §250.311 and the PADEP TGM (2002), an evaluation of potential impact to ecological receptors from Site conditions was completed utilizing the Ecological Screening Process. No additional evaluation was conducted since the following criteria were met at the Site:

- The only constituents detected on-site are residual constituents of light petroleum (diesel constituents) products (25 PA Code §250.311(b)(1); and
- The area of soil having residual impacts is less than 2 acres and the area of sediments having residual impacts is less than 1,000 square feet. (25 PA Code §250.311(b)(2).

Therefore, no additional evaluation is required.

9.0 SELECTION OF REMEDIATION STANDARDS

Based on the findings of the Site characterization as described above, GDS has elected to seek ROL by demonstrating attainment of the SHS R-U MSCs for all COPCs. Soil, sediments, and surface water were the only media impacted by the diesel release. Remediation of surface water, soil and sediments was conducted to meet the SHS, R-U MSCs for Pennsylvania Short List of diesel constituents, including benzene, ethylbenzene, toluene, isopropylbenzene (cumene), methyl tert-butyl benzene (MTBE), 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.

Surface water was remediated to meet SHS R-U MSCs and Ambient Water Quality Criteria (25 PACode Chapter 16) as indicated in **Table 1**.

Soils and sediments were remediated to meet SHS R-U MSCs as indicated in **Tables 1, 2**, and **3**.

10.0 ATTAINMENT DEMONSTRATION

This section presents the attainment demonstration of the SHS R-U MSCs for all COPCs in potentially impacted media.

10.1 SOIL

Based on soil sampling results, soil impacts have been delineated both vertically and horizontally at the Site. In accordance with 25 PA Code §250.703, for statistical methods under §250.707(b)(1)(i), 75% of all samples are equal to or less than the SHS R-U MSCs or the limit related to practical quantitation limits (PQLs) with no individual sample exceeding 10x the SHS R-U MSC on the property for all COPCS (Tables 1, 2, and Table 3).

10.2 GROUNDWATER

Due to the rapid response of GDS in remediating the diesel release, short time-frame of exposure to diesel constituents, low conductivity of surface soils and sediments, and observed depth of penetration of diesel constituents, groundwater is not considered to be a medium of concern.

10.3 SURFACE WATER

Due to the rapid response of GDS in remediating the diesel release and short time-frame of exposure to diesel constituents, surface water has been shown not to have residual impacts and meets applicable water quality criteria (**Table 1**).

10.4 VAPOR INTRUSION

The potential effect of volatilization to indoor air quality (IAQ) was assessed using *Pennsylvania's Vapor Intrusion Into Buildings From Groundwater and Soil under Pennsylvania (PA) Act 2 SWHS Guidance* (January 24, 2004). This guidance document provides a screening methodology for evaluating the potential health effects resulting from vapor intrusion of Chemicals of Potential Indoor Air Concern (COPIACs) using the Johnson and Ettinger (JE) Vapor Intrusion Model using PA-specific parameters (JE-PA Guidance).

The JE-PA Guidance for vapor intrusion from soil indicates that there is no potentially complete exposure pathway due to the fact that there are no inhabitable structures within 100 feet of the area that may contain residual impacts at low levels. In addition, the presence of the producing gas well and associated equipment make the likelihood of inhabited structures in this area unlikely for the foreseeable future.

10.5 POST REMEDIATION CARE PLAN

No Post Remediation Care is required to attain and maintain attainment with the demonstration of attainment with the SHS R-U MSCs.

11.0 ENVIRONMENTAL COVENANT

An Environmental Covenant is not required for this Site.

21

12.0 CONCLUSIONS

Cabot Oil & Gas Corporation (Cabot) operates the leased wellsite designated as Teel #5 in Springville Township, Susquehanna County, Pennsylvania. The Site, leased from Cleo and Gloria Teel, is a portion of a larger tract that consists of approximately 800 acres and is leased by Cabot to explore for and produce natural gas.

On June 3, 2008 at about 6:00 AM, the GasSearch Drilling Services Company's (GDS) drilling crew found a fuel line leaking on the drillpad of Teel #5 wellsite. At this time, GDS began the containment and cleanup process. Upon inspection, a break in the hose that supplied diesel fuel to the drill rig and booster was noted and a small area of diesel staining was observed in the riprap. It was also noted that diesel was releasing from the pad at about the elevation of the geotextile, down the hillside (and into the ground surface), seeping from the hillside into a drainage ditch along Herb Button Road, flowing into a culvert under the road, and onto a hillside that drained to a flooded area created by a beaver activity (dams).

The rig was immediately shut down and the rig crew began the containment and clean up process. An emergency response team was dispatched to the location. Interim remedial measures were implemented to contain the release and recover free product. Absorbent materials were placed on the impacted area by the crew. About 700 gallons of diesel was recovered within 2 days of the release.

An application of Petrox® & water mixture consisting of activated microbes as bioaugmentation of naturally occurring microbes and nutrients to promote microbial activity and lime were applied on the impacted areas.

Sampling to characterize Site conditions was conducted after completion of these remedial response actions. Initial results indicate that these actions were effective in remediating impacted areas; however, additional remediation was required in the area below the seep from the drillpad. Attainment of the SHS R-U MSCs was demonstrated for the drillpad for Site COPCs.

A second application of Petrox® & water mixture consisting of activated microbes as bioaugmentation of naturally occurring microbes and nutrients to promote microbial activity

and lime were applied on the impacted areas. The seep area of the drillpad was excavated and potentially impacted soil was visually evaluated and sampled to evaluate for diesel constituents during wellsite recovery and restoration. Soil samples were collected, analyzed, and evaluated for attainment with Act 2 cleanup standards. The results indicated the cleanup attained compliance with the SHS R-U MSCs for all COPCs.

Soil samples in the area that was flooded were collected, analyzed, and evaluated for attainment with Act 2 standards. The results indicted the cleanup attained compliance with the SHS R-U MSCs for all COPCs.

GDS is requesting Relief from Further Liability Protection from the PADEP for GDS, Cabot, the landowners Cleo and Gloria Teel, and all subsequent owners and operators of the remediated area in accordance with Pennsylvania's Land Recycling Act (Act 2) in accordance with the regulatory requirements of 25 PA Code Chapter 250.

13.0 REFERENCES

- Alexander, S. S., Cakir, R., Doden, A. G., Gold, D. P., and Root, S. I. (compilers), 2005. Basement depth and related geospatial database for Pennsylvania: Pennsylvania Geological Survey, 4th ser., Open-File General Geology Report 05-01.0, www.dcnr.state.pa.us/topogeo/openfile.
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- Socolow, A.A., 1980, *Geologic Map of Pennsylvania*, Commonwealth of Pennsylvania, Topographic and Geologic Survey, 1:250,000, 3 sheets.
- (soils)http://agguide.agronomy.psu.edu/CM/Sec1/sec11a.htm

TABLES

Table 1

Analytical Results for Soil and Water Samples Diesel Spill Cleanup PA Diesel Short List - 8260 June 19, 2008 and June 27, 2008

> Teel #5 Wellsite Susquehanna County Springville Township, PA

Sample ID		Soil Samples (results in mg/kg)									
	PID Reading (PPM)	Benzene	Isopropylbenzene (Cumene)	Ethylbenzene	Methyl tert-Butyl Ether	Naphthalene	Toluene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene		
oil MSCs (mg/kg)		0.5	780	70	2	25	100	9	2.8		
#1	0.0	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057		
#2	0.0	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057		
#3	0.0	ND<0.0055	ND<0.0055	ND<0.0055	ND<0.0055	ND<0.0055	ND<0.0055	ND<0.0055	ND<0.0055		
#4	0.0	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057		
#5	0.0	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058		
#6	0.0	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057		
#7	0.0	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056		
#8	2.6	ND<0.470	ND<0.470	0.90	ND<0.470	2.80	0.58	8,50	2,90		
#9	2.1	ND<0.300	0,32	0.50	ND<0.300	3.80	ND<0.300	9.50	2.90		
#10	3.3	ND<0.330	0,50	0,86	ND<0.330	4.00	ND<0,330	13.00	4.50		
		Surface Water Samples (results in µg/L)									
Surface Water WQCs (µg/L)		1.2	1,100	580	20	43	330	16	16		
Cabot-01	_	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
Cabot-02		ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
Cabot-03		ND<1.0	ND<5.0	ND<5,0	ND<5,0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
Trip Blank		ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		

Notes: 1 = ND<0.050 - Parameter was not detected above the reporting limit specified

2 = Medium Specific Concentrations (MSCs) were established from the Residential, Used Aquifer with TDS <2,500 MSCs Soil to Groundwater Numeric Values listed in Appendix A. Tables 1 and 3 of 25 PA Code Section 250, Administration of the Land Recycling Act (Act 2) regulations.

3 = Water Quality Criteria (WQCs) were established from the 25 PA Code Chapter 16 and 25 PA Code Chapter 250 regulations.

MSC and WQC exceedances are shown in yellow highlighted cells with bold type.

DIM0205880

DIM0205930

CABOT-EPA 007845

Table 2

Analytical Results for Soil Samples Diesel Spill Cleanup PA Diesel Short List - 8260 October 9, 2008

> Teel #5 Wellsite Susquehanna County Springville Township, PA

Sample ID	PID Reading (PPM)	Soil Samples (results in mg/kg)								
		Benzene	Isopropylbenzene (Cumene)	Ethylbenzene	Methyl tert-Butyl Ether	Naphthalene	Toluene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	
ioil MSCs (mg/k)	g)	0.5	780	70	2	25	100	9	2,8	
Excavator #1		ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0,0056	
Excavator #2		ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	
Excavator #3		ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	
Excavator #4		ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	
Excavator #5		ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	ND<0.0053	
Excavator #6		ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	
Excavator #7		ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	
Excavator #8		ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	
Sample #1		ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0,0057	
Sample #2		ND<0,0056	ND<0,0056	ND<0.0056	ND<0,0056	ND<0,0056	ND<0,0056	ND<0.0056	ND<0,0056	
Sample #3		ND<0.0058	ND<0.0058	ND<0.0058	ND<0,0058	ND<0.0058	ND<0.0058	ND<0.0058	ND<0.0058	
Sample #4	1	ND<0.0056	ND<0,0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0.0056	ND<0,0056	ND<0.0056	
Underflow Dam #1		ND<0.0093	ND<0.0093	ND<0.0093	ND<0.0093	ND<0,0093	ND<0.0093	ND<0.0093	ND<0.0093	
Underflow Dam #2		ND<0.0082	ND<0.0082	ND<0.0082	ND<0.0082	ND<0,0082	ND<0.0082	ND<0.0082	ND<0.0082	
Underflow Dam #3		ND<0.0077	ND<0.0077	ND<0.0077	ND<0.0077	ND<0.0077	ND<0.0077	ND<0.0077	ND<0.0077	
Underflow Dam #4		ND<0.0073	ND<0.0073	ND<0.0073	ND<0.0073	ND<0.0073	ND<0.0073	ND<0,0073	ND<0.0073	
Road Drainage #1		0.021	0.019	0,120	ND<0.0083	0,160	0.380	0.440	0.370	
Road Drainage #2		ND<0.0084	ND<0,0084	ND<0.0084	ND<0.0084	ND<0,0084	ND<0.0084	ND<0.0084	ND<0.0084	
Road Drainage #3		ND<0.0071	ND<0,0070	0.068	ND<0.0071	0,130	ND<0.0070	0.300	0.090	
Road Drainage #4		ND<0.0064	ND<0.0064	0.02	ND<0.0064	0.047	ND<0.0065	0.120	0.035	

Notes.

1 = ND<0.050 - Parameter was not detected above the reporting limit specified

2 = Medium Specific Concentrations (MSCs) were established from the Residential, Used Aquifer with TDS <2,500 MSCs Soil to Groundwater Numeric Values listed in Appendix A, Tables 1 and 3 of 25 PA Code Section 250, Administration of the Land Recycling Act (Act 2) regulations.

MSC exceedances are shown in yellow highlighted cells with bold type.

Table 3

Analytical Results for Soil Samples Diesel Spill Cleanup PA Diesel Short List - 8260 May 19, 2009

> Teel #5 Wellsite Susquehanna County

Sample ID		Soil Samples (results in mg/kg)								
	PID Reading (PPM)	Benzene	Isopropylbenzene (Cumene)	Ethylbenzene	Methyl tert-Butyl Ether	Naphthalene	Toluene	1,2,4- Trimethylbenzene	1,3,5. Trimethylbenzene	
Soil MSCs2 (mg/kg)		0.5	780	70	2	25	100	9	2.8	
TB-1	0.0	ND<0.007	ND<0.007	ND<0.007	ND<0.007	0.0158	0.0137	0.0413	0.0209	
TB-2	0.0	ND<0.0056	0.0197	0.0731	ND<0.0056	0.0397	ND<0.0056	0.2440	0.0822	
TB-3	0.0	ND<0.007	0.0097	0.0211	ND<0.007	0.0226	ND<0.007	0.1330	0.0521	
TB-4	0.0	ND<0.0073	ND<0.0073	ND<0.0073	ND<0.0073	ND<0.0073	ND<0.0073	0.0140	ND<0.0073	
TB-5	0.0	ND<0.0083	ND<0.0083	ND<0.0083	ND<0.0083	0.013	ND<0.0083	0.0085	ND<0.0083	
TB-6	0.0	ND<0.0071	ND<0.0071	ND<0.0071	ND<0.0071	ND<0.0071	ND<0.0071	ND<0.0071	ND<0.0071	
TB-7	0.0	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	
TB-8	2.6	ND<0.0056	0.011	0.016	ND<0.0056	0.048	ND<0.0056	0.1800	0.0687	
TB-9	2.1	ND<0.0067	ND<0.0067	0.0154	ND<0.0067	0.0073	ND<0.0067	0.0313	0.0112	

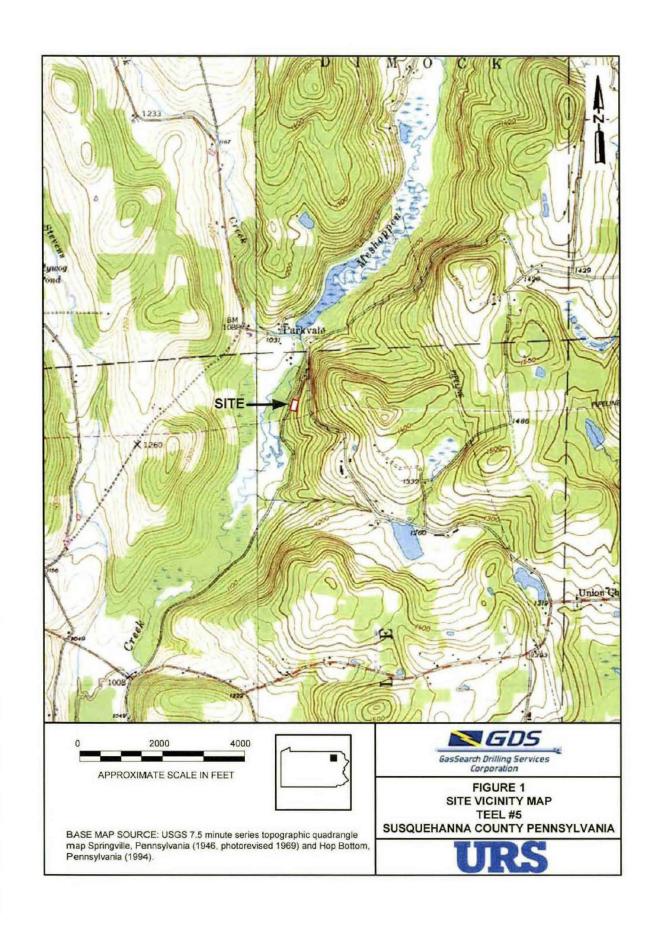
Notes: 1 = ND<0.050 - Parameter was not detected above the reporting limit specified

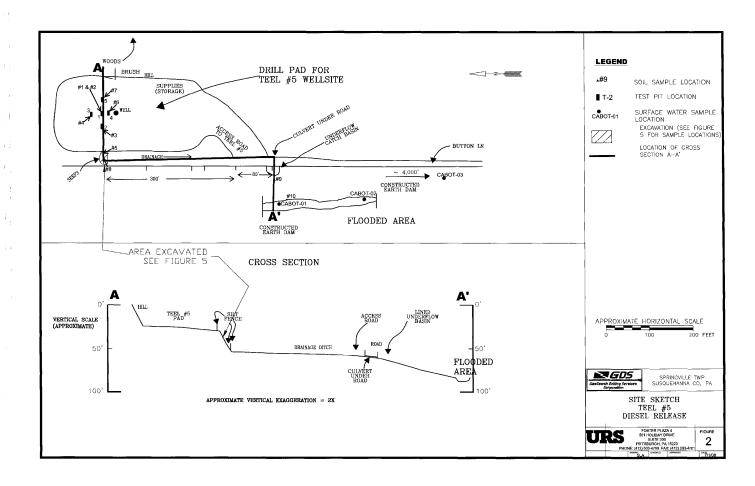
2 = Medium Specific Concentrations (MSCs) were established from the Residential, Used Aquifer with TDS <2.500 MSCs Soil to Groundwater Numeric Values listed in Appendix A, Tables 1 and 3 of 25 PA Code Section 250, Administration of the Land Recycling Act (Act 2) regulations.

MSC and WQC exceedances are shown in yellow highlighted cells with bold type.

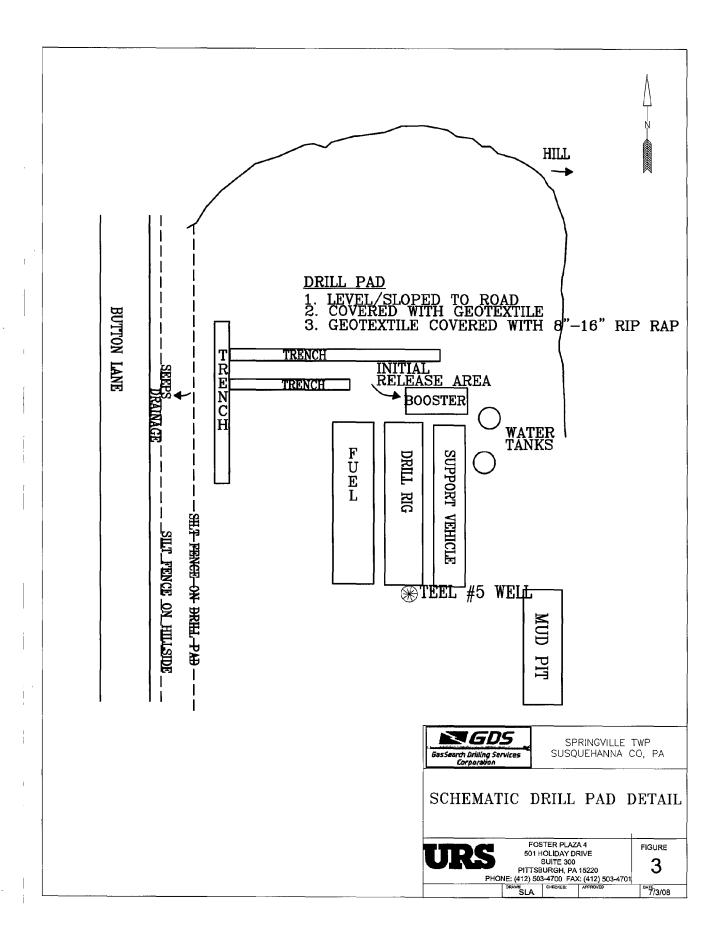
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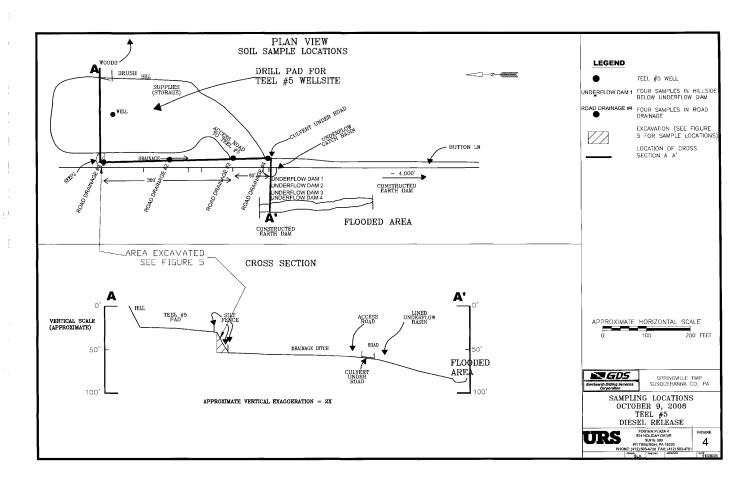
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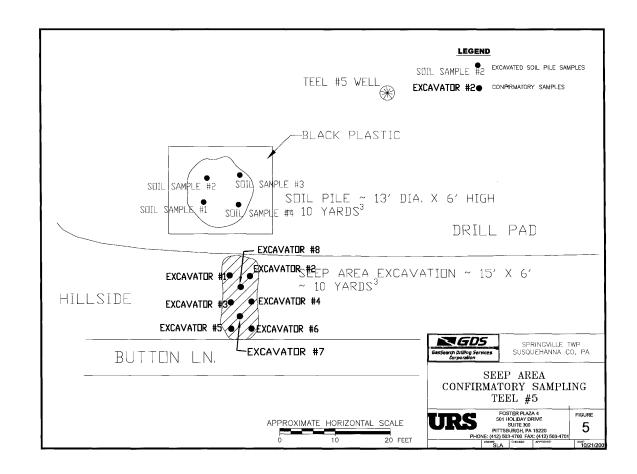


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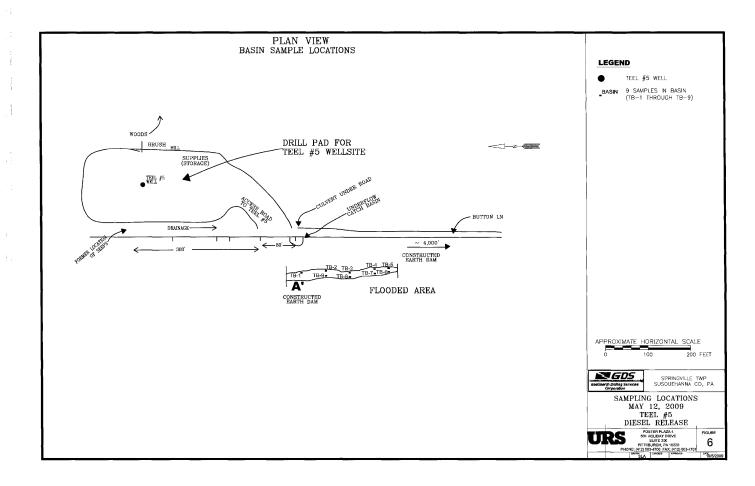




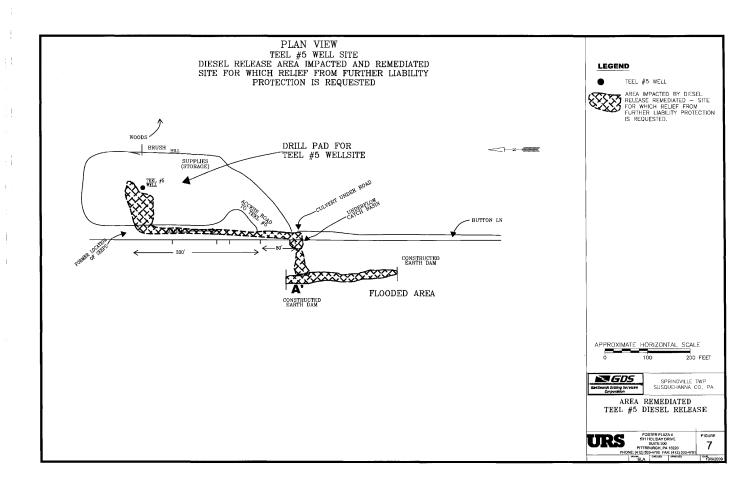
DIM0205936



DIM02059880 DIM0205937



DIM02059880 DIM0205938



DIM0205989

APPENDIX A

SITE PHOTOGRAPHS



PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥ GDS

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

Northeast

Description:

Teel #5 Wellsite.



Photo No.

Date: 6/05/08

Direction Photo Taken:

Description:

Area of initial release from break in supply line.



PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation



Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

North



Drainage along road from seep area at the edge of the drill pad at spill location to underflow culvert.



Photo No.

6/05/08 Direction Photo Taken:

Date:

Northeast

Description:

Inlet to culvert to underflow dam.



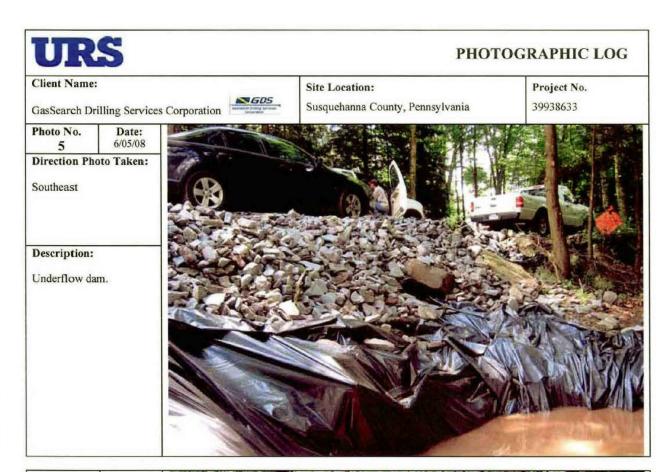


Photo No. 6 6/05/08 Direction Photo Taken: East Description: Silt fence and straw bales preventing downhill migration. Location of Sample #9.



Photo No. Date: 8 6/05/08 Direction Photo Taken:

North

Description:

Flow entry into flooded depression area.





PHOTOGRAPHIC LOG

GasSearch Drilling Services Corporation

≥605

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

South

Description:

Earthen dam at end of flooded depression area constructed to restrict migration of spilled diesel (after spill cleanup).



Photo No. Date: 6/05/08

Direction Photo Taken:

Description:

Absorbent pads in dieselimpacted flooded depression.





PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥ GDS

Site Location: Susquehanna County, Pennsylvania Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

South

Description:

Absorbent pads and booms in diesel-impacted flooded depression.



Photo No. Date: 6/05/08

Direction Photo Taken:

South

Description:

Absorbent pads and booms in diesel-impacted flooded depression.



PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥ GDS

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

North

Description:

Absorbent pads and booms in diesel-impacted flooded depression.



Photo No. Date: 6/05/08

Direction Photo Taken:

Northwest

Description:

Absorbent pads and booms in diesel-impacted flooded depression.





PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥ GD5

Site Location: Susquehanna County, Pennsylvania Project No. 39938633

Photo No. Date: 6/05/08

Direction Photo Taken:

West

Description:

Workers recovering sorbed diesel (absorbent pads and booms) storing the material in drums, for subsequent staging.



Photo No. Date: 6/05/08

Direction Photo Taken:

Southwest

Description:

Diesel recovery via absorbent material from underflow dam (culvert under the road) on the hillside adjacent the road.



PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

BARRIE IN THE STREET

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

Southwest

Description:

Discharge from the underflow dam.



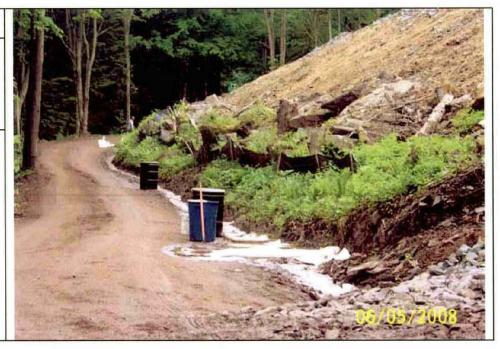
Photo No. Date: 6/05/08

Direction Photo Taken:

North

Description:

Sorbent material being used to recover diesel migrating from the drillpad to the culvert under the road.



PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥605

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

Northwest

Description:

Excavation of recovery trenches in drill pad wellsite to recover diesel.



Photo No.

Date: 6/05/08

Direction Photo Taken:

Northwest

Description:

Excavation of recovery trenches in drill pad wellsite to recover diesel.



PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥GDS

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

Northwest

Description:

Absorbent material in recovery trenches in drill pad wellsite to recover diesel.



Photo No.

Direction Photo Taken:

Date: 6/05/08

North

Description:

Earthen dam constructed on the north side of the flooded depression area that contained the spill and prevented migration of diesel downstream. Photograph is taken about two days after the spill occurred.





PHOTOGRAPHIC LOG

Client Name:

GasSearch Drilling Services Corporation

≥ GDS

Site Location:

Susquehanna County, Pennsylvania

Project No. 39938633

Photo No.

Date: 6/05/08

Direction Photo Taken:

North

Description:

Flooded depression area that contained the spill. Photograph is taken about two days after the spill occurred.



Photo No.

Date: 6/05/08

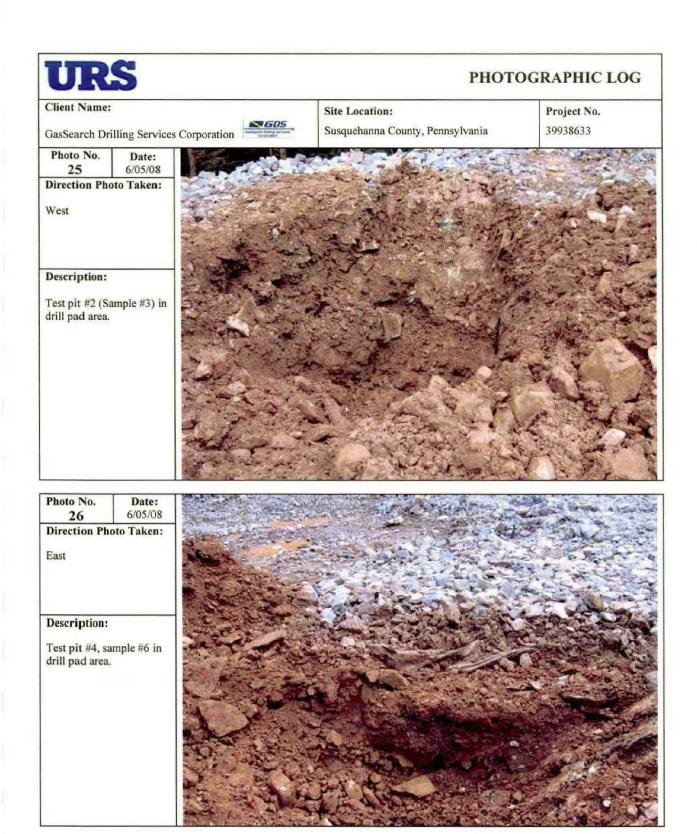
Direction Photo Taken:

South

Description:

Test pit in spill area.





APPENDIX B

NOTICE OF INTENT TO REMEDIATE AND NEWSPAPER NOTIFICATION

2530-FM-BW M0019 Rev. 10/2006



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

NOTICE OF INTENT TO REMEDIATE

Act 1995-2 requires 4 general informational items to be included in the NIR: the general location, listing of contaminants, intended use of the property, and proposed remediation measures. In addition attach a site map if available.

Property Name Teel #5 Wellsite
Address/Location Button Lane
City Springville Zip Code 18801
Municipality (if more than one, list all) Springville Township
County Susquehanna County
Latitude 41 N °(deg.) 42 '(min) 42.19 "(sec) Longitude 75 W °(deg.) 52 '(min) 13.66 "(sec)
Horizontal Collection Method: USGS Quadrangle
Horizontal Reference Datum: NAD85 Reference Point: Center of property
Wish to participate in the DEP/EPA MOA: □
Contact Dave Hess at dahess@state.pa.us for details.
EPA ID Number, if known:
Provide a general description of the site contamination in plain language (e.g. fuel oil spill, historical chemical industrial area contamination), the names of any known primary contaminants to be addressed, and the intended future use of the property:
The Teel #5 wellsite is being used for the production of natural gas. During drilling operations, a diesel fuel release occurred. Immediate action was taken when the release was discovered to clean up the release. Remedial actions included recovery of diesel product and bioremediation to clean up the release and residual impacts. Soil and surface water were the only media affected by the release.
The expected future use of the Site will be for the production of natural gas; however, the site has been remediated in compliance with Residential Statewide Health Clean Up Standards.
Provide a general description of proposed remediation measures:
The Site has been remediated to meet Residential Statewide Health Standards established under the Land Recylcling Program. Remedial actions have included the following:
Immediate measures to eliminate the source of the release;
Removal of all free diesel product from site media (soil and surface water); and
Bioremediation to remediate residual impacts.
Will remediation be to a site-specific standard □ or as a special industrial area □? If so, the municipality or municipalities must be provided 30-day comment period. Remediator/Property Owner/Consultant. For each of these recipients of the approval of the final report, complete form below.

2530-FM-BW M0019 Rev. 10/2006

Remediator

Contact Person: Kevin Rogier

Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Contractor/Remediator

Phone Number: 304-562-0758

Company Name: GasSearch Drilling Services Corporation

Address (street, city, state, zip): 2399 Virginia Avenue, Culloden, WV 25510

Email Address: kevin.rogier@gassearch.net

Property Owner

Contact Person: Cleo R. Teel and Gloria D. Teel

Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Owner

Phone Number:

Company Name: N/A

Address (street, city, state, zip): R.R.6, Box 6184, Morose, PA 18801

Email Address:

Property Lesee

Contact Person: Phil Stalnaker

Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Lessee

Phone Number: 412-249-3850

Company Name: Cabot Oil & Gas Corporation

Address (street, city, state, zip): 5 Penn Center West, Suite 401, Pittsburgh, PA 15276

Email Address: Phil.Stalnaker@cabotog.com

Consultant

Contact Person: James Pinta Jr., Ph.D., P.G.

Relationship to site (e.g. owner, remediator, participating in cleanup, consultant): Consultant

Phone Number: 412-503-4602

Company Name: URS Corporation

Address (street, city, state, zip): Foster Plaza 4, 501 Holiday Dr, Suite 300, Pittsburgh, PA 15220

Email Address: James_Pinta@urscorp.com

Preparer of Notice of Intent to Remediate:

Name: James Pinta, Jr., PhD., PG

Address: URS Corporation

Foster Plaza 4, 501 Holiday Dr, Suite 300

Pittsburgh, PA 15220

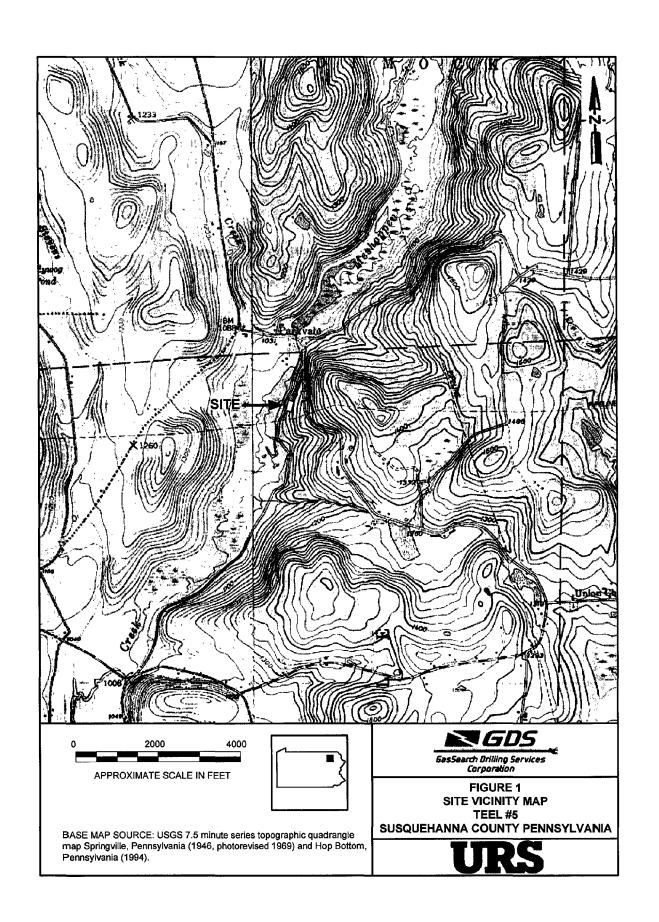
Email Address: James_Pinta@urscorp.com

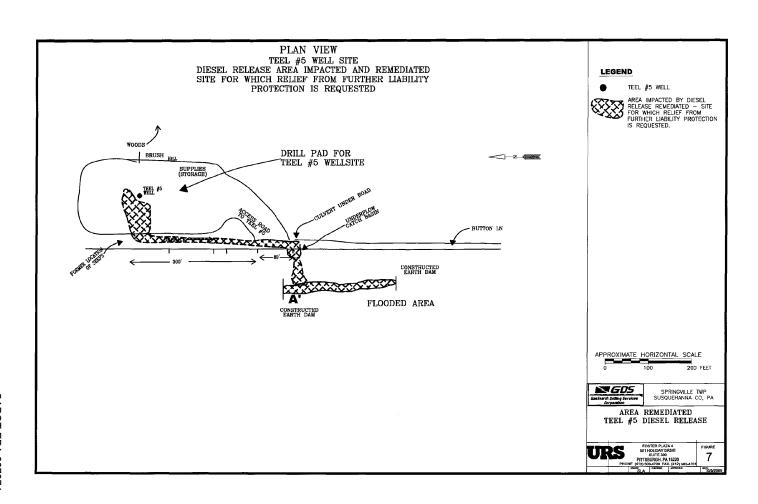
Title: Principal Geologist
Telephone: 412-503-4602

2530-FM-BW M0019 Rev. 10/2006

Email Image File of Site Map showing property lines and general area of site(s) to be remediated to: (landrecycling@state.pa.us)

CABOT-EPA 007872





DIM0205989 DIM0205959



SENT VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 29, 2009

Mr. Edwin Wood, Supervisor P. O. Box 32 Springville, PA 18844

RE: Teel #5 Wellsite Springville Township Susquehanna County

Dear Supervisor Wood:

The Land Recycling and Environmental Remediation Standards Act (Act 2) requires that a Notice of Intent to Remediate (NIR) a site be provided to the municipality in which the site is located. In accordance with this provision of Act 2, we are formally notifying you of our intent to remediate the subject Site that had a release of diesel fuel on June 3, 2008. A copy of the Notice of Intent to Remediate, which has been sent to the Pennsylvania Department of Environmental Protection (PADEP), is enclosed. The notice will also be published in the Susquehanna County Pennsylvania Independent Weekender, a local newspaper.

Should you have any questions or comments regarding the remediation, please contact Mr. Phil Stalnaker, Cabot Oil & Gas Corporation, at 412-249-3850.

Sincerely,

URS Corporation

James Pinta Jr., Ph.D., P.G.

Principal Geologist

Attachment: NIR

URS Corporation Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

CABOT-EPA 007875



SENT VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 29, 2009

Mr. Edwin Wood, Supervisor P. O. Box 32 Springville, PA 18844

RE: Teel #5 Wellsite Springville Township Susquehanna County

Dear Supervisor Wood:

Under the provision of the Land Recycling and Environmental Standards Act, the Act of May 19, 1995, P.L. 4, No. 2. notice is hereby given that URS Corporation, on behalf of GasSearch Drilling Services Corporation (GDS) has submitted a Final Report to the Department of Environmental Protection for the Teel #5 wellsite, Springville Township, Susquehanna County leased by Cabot Oil & Gas Corporation. The Final Report documents that the remediation performed to address a diesel release that occurred at the Site on June 3, 2008 has attained compliance with the Residential Statewide Health Clean Up Standards under Act 2.

Sincerely,

URS Corporation

James Pinta Jr., Ph.D., P.G.

Principal Geologist

URS Corporation Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220



URS Corporation Foster Plaza 4 501 Holiday Drive Suite 300 Pittsburgh, PA 15220



7009 1410 0001 7025 0533

Mr. Edwin Wood, Supervisor P. O. Box 32 Springville, PA 18844

URS

URS Corporation Foster Plaza 4 501 Holiday Drive Suite 300 Pittsburgh, PA 15220



7009 1410 0001 7025 0540

Mr. Edwin Wood, Supervisor P. O. Box 32 Springville, PA 18844

OF HIE HELDER VOORESS LOKO VLOORES DEN DEVES SLOKEV VLADSON ENAFLORE DO HE SIEHL

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature X
Mr. Edwin Wood, Supervisor P. O. Box 32 Springville, PA 18844	3. Seprice Type
2. Article Number 7 0 9 1410 (Transfer from service label)	0001 7025 0540
and damper of or \$8900 upper and of sections 10 sc	C. Vietnis and e
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3, Also complete	COMPLETE THIS SECTION ON DELIVERY A. Signature
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the malipiece,	COMPLETE THIS SECTION ON DELIVERY A. Signature X
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	COMPLETE THIS SECTION ON DELIVERY A. Signature Agent Addres
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	COMPLETE THIS SECTION ON DELIVERY A. Signature X
SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Anticle Addressed to: Mr. Edwin Wood, Supervisor P. O. Box 32 Springville, PA 18844	COMPLETE THIS SECTION ON DELIVERY A. Signature X



Pennsylvania Department of Environmental Protection

2 Public Square Wilkes-Barre, PA 18711-0790 October 28, 2009

Northeast Regional Office

570-826-2511 Fax 570-820-4907

Mr. Čleo R. Teel R. R. 6, Box 6184 Montrose, PA 18801

Re: ECP – Special Projects – Act 2

Receipt of Notice of Intent to Remediate

Teel Property - Well No. 5

eFACTS Site #706901, Primary Facility #707295

Remediation #39259 Herb Button Road

Springville Township, Susquehanna County

Dear Mr. Teel:

This letter confirms the Department of Environmental Protection's October 22, 2009 receipt of a Notice of Intent to Remediate (NIR) for the property named above. The NIR was submitted in accordance with the provisions of the Land Recycling and Remediation Standards Act (Act 2) by James Pinta, Jr., URS Corporation, concerning the remediation of diesel fuel found to be present in soil and surface water at the property location cited above due to a release during well drilling operations. The NIR suggests that the site will be remediated to meet the residential Statewide Health Standard under Act 2.

The procedures set forth in Act 2 must be followed in order for your site to qualify for the liability protection provided by the Act. Please ensure that the proper municipal and public notifications of your Notice of Intent to Remediate submission have been satisfied.

When received, the Department will have 60 days to review the Final Report. If we do not respond with deficiencies within the 60-day timeframe, the report will be deemed approved. You will receive a letter advising you of the Department's action at that time. If the report documents that the impacted environmental media (soil and /or groundwater) meet the selected Act 2 cleanup standard(s), then the property owner of record, as well as any other party that participated in the remediation, would be relieved of liability for any resulting contamination directly related to the specified release(s).

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www.dep.state.pa.us

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CABOT-EPA 007879

If you have any questions pertaining to the remediation process or requirements of Act 2, please contact Eric Rooney, Site Project Officer from the Department's Storage Tank Section of the Environmental Cleanup Program. Mr. Rooney or I can be reached at the above-listed telephone number.

Sincerely,

Thomas M. Thompson, P.G. Special Projects Section Manager Environmental Cleanup Program

cc: James Pinta, Jr., PhD., PG/URS Corporation

Mr. Phillip Stalnaker/Cabot Oil & Gas Corporation

Mr. Kevin Rogier/GasSearch Drilling Services Corporation

CABOT-EPA 007880

APPENDIX C

LABORATORY ANALYTICAL REPORTS

C-1 - June 2008

C-2 - October 9, 2008

C-3 - May 9, 2009

CABOT-EPA 007881

DIM0205986 DIM0205966



July 7, 2008

Mr. James Pinta . URS Corporation Construction Services Division Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Dear Mr. Pinta:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 20, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-4662 when inquiring about this report.

Client Site: Cabot Oil Client Ref.: Soil Analysis

Pace Sample Identification	Client Sample Identification
0806-3399	#1
0806-3400	. #2
0806-3401	, #3
0806-3402	#4
0806-3403	#5

Pace Sample Identification	Client Sample Identification
0806-3404	, #6
0806-3405	#7
0806-3406	: #8
0806-3407	į #9
0806-3408	#10

General Comments: Cooler temperature 8.8 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,

Raelyn E. Sylvester Project Manager

REC: jld

Enclosures

Page 1 of 12

REPORT OF LABORATORY ANALYSIS

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Page 1 of 11

CABOT-EPA 007882



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Sample Matrix:

0806-3399 #1 Solid

08-4662

Date Sampled:

Lab Project ID:

Lab Sample ID:

Client Sample ID:

06/19/2008

Date Received:

06/20/2008

Client Site: Cabot Oil Client Ref.: Soil Analysis

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	: 87	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, M	S							
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Cumene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC .	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	⊍g/kg	JEC	06/27/2008	0074397-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.7	5.7	u g/kg	JEC '	06/27/2008	0074397-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC .	06/27/2008	0074397-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

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CABOT-EPA 007883

DIM0205968 DIM0205880



Mr. James Pinta URS Corporation Construction Services Division Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Fittsburgh, FA 15220

Client Site: Cabot Oil Client Ref.: Soil Analysis Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg. PA 15601 Phone: 724.850.5600

Fax. 724.850.5601

Lab Project ID: 08 Lab Sample ID: 08

08-**4662** 0806-3400

Client Sample ID: #2 Sample Matrix: Solid

Date Sampled: Date Received: 06/19/2008

06/20/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Biank ID	Blank Result
Percent Solids	% Solids	87	N/A :	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, M	S							
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Cumene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC '	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC '	06/27/2008	0074397-1	<5.0
Naphthalene	, 8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007884



Mr. James Pinta **URS** Corporation Construction Services Division Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: Soil Analysis Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850 5600 Fax: 724.850.5601

Lab Project ID: 08-4662 Lab Sample ID: 0806-3401 Client Sample ID: #3

Sample Matrix: Solid

Date Sampled: 06/19/2008 Date Received: 06/20/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	91	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Cumene	8260B ⁽¹⁾	<5.5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.€
Ethylbenzene	8260B ⁽¹⁾	<5. 5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5 .5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.
Naphthalene	8260B ⁽¹⁾	<5 .5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.6
Toluene	8260B ⁽¹⁾	<5.5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.1
1,2,4-Trimethylbenzene	8260B(1)	< 5.5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.1
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.5	5.5	ug/kg	JEC	06/27/2008	0074397-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

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CABOT-EPA 007885

DIM0205970 DIM0205880



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Lab Project ID: Lab Sample ID: Client Sample ID: 08-4662 0806-3402

#4 Sample Matrix: Solid

Date Sampled: Date Received: 06/19/2008 06/20/2008

Client Site: Cabot Oil Client Ref.: Soil Analysis

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	87	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	; JEC	06/27/2008	0074397-1	<5.0
Cumene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed , Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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Page 5 of 11

CABOT-EPA 007886



Mr. James Pinta URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: Soil Analysis Lab Project ID:

08-4662 0806-3403

Lab Sample ID: Client Sample ID: Sample Matrix:

D: #5 Solid

Date Sampled: Date Received: 06/19/2008 06/20/2008

....,,

Inorganic Extraction								
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank iD	Blank Result
Percent Solids	% Solids	86	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	06/27/2008	0074397-1	. <5.(
Cumene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Ethylbenzene	82608(1)	<5.8	5,8	ug/kg	JĒĊ	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	06/27/2008	0074397-1	<5.6
Naphthalene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	06/27/2008	0074397-1	<5,0
Toluene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC ,	06/27/2008	0074397-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.8	58	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	06/27/2008	0074397-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007887



08-4662 Fax: 724.850.5601

Lab Sample ID: 0806-3404
Client Sample ID: #6
Sample Matrix: Solid

Lab Project ID:

aripie Mauri. Soliu

Date Sampled: 06/19/2008
Date Received: 06/20/2008

Mr. James Pinta
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: Soil Analysis

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	90	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	>	***************************************						
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC .	06/27/2008	0074397-1	<5.0
Cumene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5,7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC .	06/27/2008	0074397-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC ,	06/27/2008	0074397-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	06/27/2008	0074397-1	<5.C

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007888



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: Soil Analysis Lab Project ID:

08-4662

Lab Sample ID: 0806-3405 Client Sample ID:

#7 Sample Matrix:

Solid

Date Sampled:

06/19/2008

Date Received:

06/20/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	89	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3		-					
Benzene	8260B(1)	<5.6	5.6	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Cumene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC .	06/27/2008	0074397-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	06/27/2008	0074397-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC .	06/27/2008	0074397-1	<5.0
Toluene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	06/27/2008	0074397-1	<5.0
1,3,5-Trìmethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	06/27/2008	0074397-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007889

DIM0205974 DIM0205880



URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Lab Project ID: Lab Sample ID: 08-4662 0806-3406

Client Sample ID: #8 Sample Matrix:

Solid

Date Sampled: Date Received: 06/19/2008 06/20/2008

Client Site: Cabot Oil Client Ref.: Soil Analysis

Ingraphic Extraction

MOI game Extraction			··		,		,	
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	56	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test		Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Biank Result
Volatile Organic Compounds, M	S								
Benzene	;	8260B ⁽¹⁾	<470	470	ug/kg	JEC	06/30/2008	0074438-1	< 5.0
Cumene	+=1	8260B ⁽¹⁾	<470	470	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Ethylbenzene	. 4	8260B ⁽¹⁾	900	470	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Methyl tert-butyl ether	1	8260B(1)	<470	470 .	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Naphthalene		8260B ⁽¹⁾	2800	470	ug/kg	JÉC	06/30/2008	0074438-1	<5.0
Toluene		8260B ⁽¹⁾	580	470	ug/kg	JEC	06/30/2008	0074438-1	<5.0
1,2,4-Trimethylbenzene	;	8260B ⁽¹⁾	8500	470	ug/kg	, JEC	06/30/2008	0074438-1	<5.0
1,3,5-Trimethylbenzene		8260B ⁽¹⁾	2900	470	ug/kg	JEC	06/30/2008	0074438-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. Detection limits have been elevated due to high analyte concentrations.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007890



Construction Services Division

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

URS Corporation

Foster Plaza 4

Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850 5601

Lab Project ID: Lab Sample ID: 08-4662 0806-3407

Client Sample ID: Sample Matrix:

#9

Solid

Date Sampled: Date Received: 06/19/2008 06/20/2008

Client Site: Cabot Oil Client Ref.: Soil Analysis

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	68	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank iD	Blank Result
Volatile Organic Compounds, MS	h							
Benzene	. 8260B ⁽¹⁾	<300	300	ug/kg	JEC	06/30/2008	0074438-1	<5.(
Cumene	8260B ⁽¹⁾	320	300	ug/kg	JEC ,	06/30/2008	0074438-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	500	300	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<300	300	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Naphthalene	8260B ⁽¹⁾	3800	300	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Toluene	8260B ⁽¹⁾	<300	300	ug/kg	JEC ,	06/30/2008	0074438-1	<5.0
1.2,4-Trimethylbenzene	8260B ⁽¹⁾	9500	300	ug/kg	JEC	06/30/2008	0074438-1	<6.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	2900	300	ug/kg	JEC	06/30/2008	0074438-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. Detection limits have been elevated due to high analyte concentrations.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007891



URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

 Lab Project ID:
 08-4662

 Lab Sample ID:
 0806-3408

 Client Sample ID:
 #10

 Sample Matrix:
 Solid

....

Date Sampled: 06/19/2008 Date Received: 06/20/2008

Client Site: Cabot Oil
Client Ref.: Soil Analysis

Inorganic Extraction

Ministration my					,			
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	67	N/A	%	DAB	06/24/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<330	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Cumene	8260B(1)	500	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Ethylbenzene	8260B(1)	860	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<330	330.	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Naphthalene	8260B ⁽¹⁾	4000	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0
Toluene	8260B(1)	<330	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0
1,2,4-Trimethylbenzene	8260B(1)	13000	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	4500	330	ug/kg	JEC	06/30/2008	0074438-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. Detection limits have been elevated due to high analyte concentrations.

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July 7, 2008

Mr. James Pinta URS Corporation Construction Services Division Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Dear Mr. Pinta:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 28, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-4856 when inquiring about this report.

Client Site: Cabot Oil Client Ref.: 39939193.00003

Pace Sample Identification	Client Sample Identification
0806-4682	Cabot-01
0806-4683	Cabot-02
0806-4684	Cabot-03
0806-4685	Cabot-Trlp

General Comments: Cooler temperature 5.4 ° C upon receipt. Ice was present. This report has been reissued on July 14, 2008 in order to lower the reporting limit for Benzene per the Client's request. Please replace the original report with the revised report enclosed.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,

Raelyn E. Sylvester Project Manager

REC: jld

Enclosures

Page 1 of <u>6</u>

REPORT OF LABORATORY ANALYSIS

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Page 1 of 5

CABOT-EPA 007894



Mr. James Pinta URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220 Lab Project ID: Lab Sample ID: Client Sample ID: Sample Matrix: 08-4856 0806-4682 Cabot-01 Aqueous

Date Sampled: Date Received: 06/27/2008 06/28/2008

Client Site: Cabot Oil-Client Ref.: 39939193.00003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
olatile Organic Compounds, MS	3		***************************************					*
Benzene	8260B ⁽¹⁾	<1.0	1.0 ,	ug/l	EAC	07/02/2008	0074564-1	<1.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	50	ug/l	EAC	07/02/2008	0074564-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<50	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/I	EAC	07/02/2008	0074564-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
1,3,5-Trimelhylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007895



URS Corporation

Lab Sample ID: Client Sample ID: Sample Matrix:

Lab Project ID:

08-4856 0806-4683 Cabot-02 Aqueous

Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Construction Services Division

Date Sampled: Date Received: 06/27/2008 06/28/2008

Client Site: Cabot Oil Client Ref.: 39939193.00003

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAC	07/02/2008	0074564-1	<1.0
Cumene	8260B ⁽¹⁾	<5.0	50	ug/l	EAC	07/02/2008	0074564-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5,0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<50
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007896

DIM0205981 DIM0205880



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Lab Sample ID: Client Sample ID: Sample Matrix:

Lab Project ID:

0806-4684 Cabot-03 Aqueous

08-4856

Date Sampled: Date Received; 06/27/2008 06/28/2008

Client Site: Cabot Oil Client Ref.: 39939193.00003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAC	07/02/2008	0074564-1	<1.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	: EAC	07/02/2008	0074564-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007897



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Lab Project ID: Lab Sample ID: 08-4856 0806-4685

Client Sample ID: Sample Matrix:

Cabot-Trip

Aqueous

Date Sampled:

06/27/2008

Date Received:

06/28/2008

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
latile Organic Compounds, MS	3				***************************************			
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	EAC	07/02/2008	0074564-1	<1.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5,0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.6
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5. €
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	07/02/2008	0074564-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007898

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October 27, 2008

Mr. James Pinta URS Corporation Construction Services Division Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Dear Mr. Pinta:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on October 11, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-7606 when inquiring about this report.

Client Site: Cabot Oil Client Ref.: 39939193.00005

Pace Sample Identification	Client Sample Identification
0810-2043	Underflow Dam #1
0810-2044	Underflow Dam #2
0810-2045	Underflow Dam #3
0810-2046	Underflow Dam #4
0810-2047	ļ ТВ

Pace Sample Identification	Client Sample Identification
0810-2048	Road Drainage #1
0810-2049	Road Drainage #2
0810-2050	, Road Drainage #3
0810-2051	Road Drainage #4

General Comments: Cooler temperature 8.4 ° C upon receipt, Ice was present. The pre-preserved vials for all samples were over-filled, so a portion of sample from the soil jar was used for VOC analysis.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,

Raelyn E. Sylvester Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Page 1 of 10



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oll Client Ref.: 39939193.00005 Pace Analytical Services, Inc.

1638 Roseytown Rd Suites 2, 3 & 4

Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850 5601

Lab Project ID:

08-7606

Lab Sample ID: Client Sample ID: 0810-2043 Underflow Dam #1

Sample Matrix:

Solid

Date Sampled:

10/09/2008

10/11/2008 Date Received:

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	54	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	i							
Benzene	8260B ⁽¹⁾	<9.3	93	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Cumene	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC .	10/20/2008	0078209-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Naphthalene	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Toluene	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC	10/20/2008	0078209-1	<5.6
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<9.3	9.3	ug/kg	JEC	10/20/2008	0078209-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. VOA: One internal standard recovery is outside QC limits (low). Re-analysis of the sample yielded the same result, therefore matrix interference is suspected.

REPORT OF LABORATORY ANALYSIS

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Construction Services Division

Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

Fax: 724.850.5601

Lab Project ID: 08-7606 Lab Sample ID: 0810-2044

Client Sample ID: Underflow Dam #2

Sample Matrix: Solid

Date Sampled: 10/09/2008 Date Received: 10/11/2008

Foster Plaza 4 501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

URS Corporation

Client Site: Cabot Oil Client Ref.: 39939193.00005

Inorganic Extraction

morganic Extraction								
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	61	N/A	%	DAB	10/16/2008	N/A	N/A

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
olatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Cumene	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC :	10/20/2008	0078209-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC ·	10/20/2008	0078209-1	<5.0
Naphthalene	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Toluene	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,2,4-Trimethylbenzene	8260B(1)	<8.2	8.2	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<8.2	8.2	ug/kg	JEC	10/20/2008	0078209-1	<5.(

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. VOA: One internal standard recovery is outside QC limits (low). Re-analysis of the sample yielded the same result, therefore matrix interference is suspected.

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Pace Analytical Services, Inc. 1638 Roseytown Rd

Suites 2, 3 & 4

Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850.5601

Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil

Lab Sample ID: Client Sample ID:

08-7606 0810-2045

Underflow Dam #3

Sample Matrix:

Solid

Date Sampled:

Lab Project ID:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

Client Ref.: 39939193.00005

	Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Resuit
F	Percent Solids	% Solids	68	N/A	%	DAB .	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
olatile Organic Compounds, M	3							
Benzene	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Cumene	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC .	10/20/2008	0078209-1	<5.0
Naphthalene .	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Toluene	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<7.7	7,7	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<7.7	7.7	ug/kg	JEC	10/20/2008	0078209-1	<5.

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. VOA: One internal standard recovery is outside QC limits (low). Re-analysis of the sample yielded the same result, therefore matrix interference is suspected.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007903



Mr. James Pinta URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00005 Pace Analytical Services, Inc.

1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

none: 724.850.5600 Fax: 724.850.5601

Lab Project ID: Lab Sample ID: 08-7606 0810-2046

Client Sample ID: Underflow Dam #4

Sample Matrix:

Solid

10/0

Date Sampled: Date Received: 10/09/2008 10/11/2008

Inorganic Extraction

morganio Excusuon			Reporting			Analysis	Method	Blank
Test	Method	Result	Limit	Units	Analyst	Date	Blank ID	Result
Percent Solids	% Solids	68	N/A	%	DAB	10/16/2008	N/A	- N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Biank Result
Volatile Organic Compounds, MS	5							
Benzene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	< 5.0
Cumene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Naphthalene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Toluene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<7.3	7.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007904



Pace Analytical Services, Inc. 1638 Roseytown Rd Surtes 2, 3 & 4

Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850.5601

Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Lab Project ID: Lab Sample ID: Client Sample ID:

Sample Matrix:

Date Received:

08-7606 0810-2047

TB

Date Sampled:

Aqueous

10/09/2008 10/11/2008

Client Site: Cabot Oil Client Ref.: 39939193.00005

Valatilaa

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/20/2008	0078228-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/20/2008	0078228-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	50	ug/l	EAC	10/20/2008	0078228-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/20/2008	0078228-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.0	5.0,	ug/l	EAC	10/20/2008	0078228-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/20/2008	0078228-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/20/2008	0078228-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/I	EAC	10/20/2008	0078228-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007905

DIM0205990 DIM0205880



Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600 606 Fax: 724.850.5601

nta

Mr. James Pinta URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00005 Lab Project ID:

08-7606

0810-2048

Lab Sample ID: Client Sample ID:

0810-2048 Road Drainage #1

Sample Matrix: Sol

...

Solid

Date Sampled: Date Received:

10/09/2008 10/11/2008

Inorganic Extraction

morganic Extraction								¥-
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	61	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	21	8.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Curnene	8260B ⁽¹⁾	19	8.5	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	120	8.3	ug/kg	JEC	10/17/2008	0078185-1	<5.(
Methyl tert-butyl ether	8260B(1)	<8.3	8.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Naphthalene	8260B ⁽¹⁾	160	8.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Toluene	8260B ⁽¹⁾	380	8.5	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	440	8.5	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	370	8.3	ug/kg	JEC	10/17/2008	0078185-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. VOA: One surrogate recovery is outside QC limits (high) due to sample matrix interference.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007906



URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00005 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone 724 850.5600

Fax: 724.850,5601

Lab Project ID:

08-7606

Lab Sample ID: 0810-2049

Client Sample ID:

Road Drainage #2

Sample Matrix:

Solid

Date Sampled:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	- 5 9	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, M	3							
Benzene	8260B ⁽¹⁾	<8.4	8.4	ug/kg	JEC .	10/17/2008	0078185-1	<5.0
Cumene	8260B(1)	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Naphthalene	8260B ⁽¹⁾	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Toluene	8260B ⁽¹⁾	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
1,2,4-Trimethylbenzene	8260B ^(†)	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<8.4	8.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence. VOA: Surrogate recoveries are outside QC limits (high), however, no target compounds were detected above the reporting limit.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007907



URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Sulte 300

Pittsburgh, PA 15220

Client Site: Cabot Oil

Client Ref.: 39939193,00005

Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4

Greensburg, PA 15601 Phone: 724.850.5600

Fax: 724.850 5601

Lab Project ID: Lab Sample ID: 08-7606

0810-2050

Client Sample ID:

Sample Matrix:

Road Drainage #3 Solid

Date Sampled: Date Received: 10/09/2008

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	72	N/A	%	DAB	10/16/2008	N/A	N/A

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
/olatile Organic Compounds, M	\$							
Benzene	8260B ⁽¹⁾	<7.1	7.1	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Cumene	8260B ⁽¹⁾	<7.0	7.0	ug/kg	JEC	10/20/2008	0078209-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	. 68	7.1	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<7.1	7.1	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Naphthalene	8260B ⁽¹⁾	130	7.1	ug/kg	JEC ·	10/17/2008	0078185-1	<5,0
Toluene	8260B ⁽¹⁾	<7.0	7.0	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	300	7.1	ug/kg	JEC	10/17/2008	0078185-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	90	7.1	ug/kg	JEC	10/17/2008	0078185-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

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CABOT-EPA 007908

DIM0205993 DIM0205880



Construction Services Division

URS Corporation

Foster Plaza 4

Pace Analytical Services, Inc.

1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

Lab Project ID:

08-7606

Fax: 724.850.5601

Lab Sample ID: Client Sample ID: 0810-2051 Road Drainage #4

Sample Matrix:

Solid

Date Sampled: Date Received: 10/09/2008 10/11/2008

Client Site: Cabot Oil Client Ref.: 39939193.00005

501 Hollday Drive, Suite 300 Pittsburgh, PA 15220

morganic extraction								
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	78	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<6.4	6.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Cumene	8260B ⁽¹⁾	<6.4	6.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	18	6.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<6.4	6.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
Naphthalene .	8260B(1)	47	6.4	ug/kg	, JEC	10/17/2008	0078185-1	<5.0
Toluene	8260B ⁽¹⁾	<6.5	6.5	ug/kg	JEC	10/20/2008	0078209-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	, 120	6.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	35	6.4	ug/kg	JEC	10/17/2008	0078185-1	<5.0

(1) U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007909

DIM0205994 DIM0205880

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mixed be completed accurately

www.pacelabs.som																										
Section A	Section B							Sec	tion (;											Pa	ge.	_/		of /	
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Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA. 15601 Phone: 724.850.5600 Fax: 724.850.5601

October 27, 2008

Mr. James Pinta URS Corporation Construction Services Division Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Dear Mr. Pinta:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on October 11, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-7605 when inquiring about this report.

Client Site: Cabot Oil

Client Ref.: 39939193.00003

Pace Sample Identification	Client Sample Identification
0810-2030	TB
0810-2031	Soil Sample in Excavator #1
0810-2032	Soil Sample in Excavator #2
0810-2033	Soil Sample in Excavator #3
0810-2034	Soil Sample in Excavator #4
0810-2035	Soil Sample in Excavator #5
0810-2036	Soil Sample in Excavator #6

Pace Sample Identification	Client Sample Identification
0810-2037	Soil Sample in Excavator #7
0810-2038	Soil Sample in Excavator #8
0810-2039	Soil Sample #1
0810-2040	Soil Sample #2
0810-2041	Soil Sample #3
0810-2042	Soil Sample #4

General Comments: Cooler temperature 7.4 ° C upon receipt. Ice was present. The pre-preserved vials for all samples were over-filled, so a portion of sample from the soil jar was used for VOC analysis.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,

Raelyn E. Sylvester Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Page 1 of 14

CABOT-EPA 007911



Mr. James Pinta **URS** Corporation Construction Services Division Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

Fax: 724.850 5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2030

Client Sample ID: Sample Matrix:

TB Aqueous

Date Sampled: Date Received: 10/09/2008 10/11/2008

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
latile Organic Compounds, MS			<u> </u>					
Benzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5,0	ug/l	EAC	10/16/2008	0078081-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	< 5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	EAC	10/16/2008	0078081-1	<5.0

(1) U.S. Environmental Protectron Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007912



Mr. James Pinta **URS** Corporation Construction Services Division

Foster Plaza 4 501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193,00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

Fax: 724 850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2031

Client Sample ID:

Soil Sample in Excavator #1

Sample Matrix:

Solid

Date Sampled:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

morganic Extraction					,			
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Biank Result
Percent Solids	% Solids	90	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Benzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	. 0078181-1	<5.0
Cumene .	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<50
Methyl tert-butyl ether	8260B(1)	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	, 8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007913



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd

Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724,850,5600

Fax: 724.850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2032

Client Sample ID: Sample Matrix:

Soil Sample in Excavator #2

Solid

Date Sampled:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

		Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Resuit
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Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
/olatile Organic Compounds, MS	3							
Benzene	: 8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Cumene	8260B ⁽¹⁾	<5,8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	. 8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	: 0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007914



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4

Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2033

Client Sample ID:

Soil Sample in Excavator #3

Sample Matrix:

Solid

Date Sampled:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

	Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Γ	Percent Solids	% Solids	88	N/A	%	DAB	10/16/2008	N/A	N/A

Volotiloo

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	5							
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC .	10/17/2008	0078181-1	<5.0
Cumene	8260B(1)	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.{
Ethylbenzene	8260B(1)	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B(1)	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.(
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007915



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd

Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

Fax 724.850.5601

Lab Project ID: Lab Sample ID:

08-7605 0810-2034

Client Sample ID:

Soil Sample in Excavator #4

Sample Matrix:

Solid

Date Sampled: Date Received: 10/09/2008

10/11/2008

· inorganic Extraction

Test ,	Method	Result	Reporting Limit	Units	Analyst	Anaiysis Date	Method Blank ID	Blank Result
nt Solids	% Solids	88	N/A	%	DAB ,	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
/olatile Organic Compounds, MS	i							
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Cumene	8260B(1)	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B(1)	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007916



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc.

1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600

Fax: 724.850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2035

Client Sample ID:

Sample Matrix:

Soil Sample in Excavator #5

Solid

Date Sampled:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	94	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Cumene	8260B ⁽¹⁾	<5.3	5,3	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B(1)	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5,0
Naphthalene	8260B ⁽¹⁾	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5.(
Toluene	8260B ⁽¹⁾	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethytbenzene	8260B ⁽¹⁾	<5.3	5.3	ug/kg	JEC	10/17/2008	0078181-1	<5,(

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007917



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193,00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Stites 2, 3 & 4 Greensburg, PA 15601

Phone: 724.850.5600

Lab Project ID: Lab Sample ID: 08-7605 0810-2036

Fax: 724.850.5601

Client Sample ID:

Soil Sample in Excavator #6

Sample Matrix:

Solid

Date Sampled: Date Received: 10/09/2008

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	90	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
/olatile Organic Compounds, MS	3	,						
Benzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Cumene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.6	5,6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007918



Mr. James Pinta URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724 850,5600

Fax: 724,850 5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2037

0810-2037

Client Sample ID:

Soil Sample in Excavator #7

Sample Matrix:

Solid

Date Sampled: Date Received: 10/09/2008

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	: 89	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	· <5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.6
Cumene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC .	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	ا- <5،C

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007919



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4

Greensburg, PA 15601 Phone: 724.850.5600

Fax: 724.850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2038

Soil Sample in Excavator #8

Client Sample ID: Sample Matrix:

Date Sampled: Date Received: 10/09/2008

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	93	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
/olatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.1
Cumene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.
Naphthalene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEÇ	10/17/2008	0078181-1	<5.
Toluene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.4	5.4	ug/kg	JEC	10/17/2008	0078181-1	<5.

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007920



Mr. James Pinta **URS** Corporation Construction Services Division Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193,00003 Pace Analytical Services, Inc.

1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850.5601

08-7605 Lab Project ID: Lab Sample ID: 0810-2039

Client Sample ID: Soil Sample #1

Sample Matrix: Solid

Date Sampled: Date Received: 10/09/2008

10/11/2008

Inorganic Extraction

IIIOI GAING EXHAGINOIT								
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank iD	Blank Result
Percent Solids	% Solids	. 88	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Cumene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.7	5.7	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007921



Mr. James Pinta URS Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

Client Site: Cabot Oil

Client Ref.: 39939193.00003

Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600 05 Fax: 724.850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2040

0810-2040 Soil Sample #2

Client Sample ID: Sample Matrix:

Solid

Date Sampled: Date Received: 10/09/2008

10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	89	N/A	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3						-	
Benzene	8260B(1)	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.(
Cumene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	≺5.6	5.6	ug/kg	JEC ·	10/17/2008	0078181-1	<5.6
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.
Toluene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	. 0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007922



Mr. James Pinta **URS** Corporation

Construction Services Division

Foster Plaza 4

501 Holiday Drive, Suite 300

Píttsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc.

1638 Roseytown Rd Surtes 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724,850.5601

Lab Project ID: Lab Sample ID: 08-7605 0810-2041

Client Sample ID: Sample Matrix:

Soil Sample #3 Solid

Date Sampled:

10/09/2008

Date Received:

10/11/2008

Inorganic Extraction

morgame Extraction								
Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	87	N/A:	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Cumene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5. 0
Methyl fert-butyl ether	8260B ⁽¹⁾	<5.8	5,8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	< 5.0
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.8	5.8	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007923



Mr. James Pinta **URS** Corporation Construction Services Division

Foster Plaza 4 501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Client Site: Cabot Oil Client Ref.: 39939193.00003 Pace Analytical Services, Inc. 1638 Roseytown Rd Suites 2, 3 & 4 Greensburg, PA 15601 Phone: 724.850.5600 Fax: 724.850.5601

Lab Project ID: 08-7605 0810-2042 Lab Sample ID: Soil Sample #4 Client Sample ID:

Sample Matrix: Solid

10/09/2008 Date Sampled:

Date Received: 10/11/2008

Inorganic Extraction

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Percent Solids	% Solids	90	N/A.	%	DAB	10/16/2008	N/A	N/A

Volatiles

Test	Method	Result	Reporting Limit	Units	Aпalyst	Analysis Date	Method Blank ID	Biank Result
Volatile Organic Compounds, MS	3							
Benzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.6
Cumene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.
Methyl tert-butyl ether	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Naphthalene	8260B ⁽¹⁾	<5.6	56	ug/kg	JEC	10/17/2008	0078181-1	<5.0
Toluene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.0
1,2,4-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6	ug/kg	JEC	10/17/2008	0078181-1	<5.€
1,3,5-Trimethylbenzene	8260B ⁽¹⁾	<5.6	5.6!	ug/kg	JEC	10/17/2008	0078181-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported in dry weight equivalence.

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CABOT-EPA 007924

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May 26, 2009

Mr. Jim Pinta URS Corporation Foster Plaza 4 501 Holiday Drive, Suite 300 Pittsburgh, PA 15220

RE: Project: TEEL #5

Pace Project No.: 309918

Dear Mr. Pinta:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

Caehon ES froter

raelyn.sylvester@pacelabs.com Project Manager

Enclosures

cc: Mr. John Smelko, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 16

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CABOT-EPA 007926



Pace Analytical Services, Inc.

1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601

(724)850-5600

CERTIFICATIONS

Project

TEEL #5

Pace Project No.:

309918

Pennsylvania Certification IDs

Wyoming Certification # 8TMS-Q Wisconsin/PADEP Certification West Virginia Certification #: 143 Washington Certification #: C1941 Virginia Certification #: 00112

Virgin Island/PADEP Certification
Utah/NELAC Certification # ANTE
Texas/NELAC Certification # T104704188-09 TX
Tennessee Certification # TN2867
South Dakota Certification

Puerto Rico Certification #: PA01457 Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888

New Mexico Certification #. 10888
New Mexico Certification #. PA 051
New Hampshire/NELAC Certification #. 2976
Nevada Certification

Nevaua Certification # Cert 0082 Montana Certification #: 235 Minnesota Certification #: 042-999-425 Michigan/PADEP Certification

Massachusetts Certification #: M-PA1457

Maryland Certification #: 308

Maine Certification # PA0091 Louisiana/NELAC Certification # LA080002 Louisiana/NELAC Certification # 4086

Kentucky Certification #: 90133 Kansas/NELAC Certification # E-10358

Iowa Certification #: 391 Indiana/PADEP Certification Illinois/PADEP Certification

Idaho Certification

Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification # 968
Florida/NELAC Certification # E87683 Delaware Certification

Connecticut Certification # PH 0694

Colorado Certification
California/NELAC Certification #: 04222CA

Arkansas Certification

Arızona Certification # AZ0734 Alabama Certification # 41590

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007927



SAMPLE ANALYTE COUNT

Project⁻

TEEL.#5

Pace Project No

309918

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
309918001	TB-1	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	, JEW	11	PASI-PA
309918002	TB-2	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918003	TB-3	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918004	TB-4	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918005	TB-5	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918006	TB-6	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918007	TB-7	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918008	TB-8	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA
309918009	TB-9	ASTM D2974-87	DSC	1	PASI-PA
		EPA 8260	JEW	11	PASI-PA

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CABOT-EPA 007928



ANALYTICAL RESULTS

Project.

Sample: TB-1

TEEL#5

Pace Project No 309918

Lab ID: 309918001 Collected: 05/12/09 13.55 Received 05/13/09 15 15 Matrix Solid

Results reported on a "dry-weight	t" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
8260 MSV PA UST	Analytical Me	thod: EPA 826	0					
Benzene	ND u	g/kg	7.0	1		05/15/09 18:19	71-43-2	
Ethylbenzene	ND u	g/kg	7.0	1		05/15/09 18:19	100-41-4	
Isopropylbenzene (Cumene)	ND u	g/kg	70	1		05/15/09 18:19	98-82-8	
Methyl-tert-butyl ether	ND u	g/kg	70	1		05/15/09 18:19	1634-04-4	
Naphthalene	15.8 u	g/kg	7.0	1		05/15/09 18·19	91-20-3	
Toluene	13.7 u	g/kg	70	1		05/15/09 18 19	108-88-3	
1,2,4-Trimethylbenzene	41.3 u	g/kg	70	1		05/15/09 18:19	95-63-6	
1,3,5-Trimethylbenzene	20.9 u	g/kg	7.0	1		05/15/09 18:19	108-67-8	
Toluene-d8 (S)	98 %	6	70-130	1		05/15/09 18 19	2037-26-5	
4-Bromofluorobenzene (S)	85 %	6	70-130	1		05/15/09 18-19	460-00-4	
1,2-Dichloroethane-d4 (S)	122 %	6	70-130	1		05/15/09 18:19	17060-07-0	
Percent Moisture	Analytical Me	thod: ASTM D	2974-87					
Percent Moisture	33.7 %	6	0.10	1		05/18/09 12:44		

Date: 05/26/2009 02:06 PM

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007929



(724)850-5600

ANALYTICAL RESULTS

Project

TEEL#5

Pace Project No.. 309918

Collected 05/12/09 14:15 Received: 05/13/09 15:15 Matrix: Solid Sample: TB-2 Lab ID: 309918002

Results reported on a "dry-weigh	t" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
8260 MSV PA UST	Analytical Met	thod: EPA 8260)					
Benzene	ND u	g/kg	5.6	1		05/15/09 18 47	71-43-2	
Ethylbenzene .	73.1 u	g/kg	5.6	1		05/15/09 18:47	100-41-4	
Isopropylbenzene (Cumene)	19.7 u	g/kg	5.6	1		05/15/09 18:47	98-82-8	
Methyl-tert-butyl ether	ND u	g/kg	5.6	1		05/15/09 18:47	1634-04-4	
Naphthalene	39.7 u	g/kg	5.6	1		05/15/09 18 47	91-20-3	
Toluene	ND u	g/kg	5.6	1		05/15/09 18:47	108-88-3	
1,2,4-Trimethylbenzene	244 u	g/kg	5.6	1		05/15/09 18:47	95-63-6	
1,3,5-Trimethylbenzene	82.2 u	g/kg	56	1		05/15/09 18.47	108-67-8	
Toluene-d8 (S)	93 %		70-130	1		05/15/09 18.47	2037-26-5	
4-Bromofluorobenzene (S)	107 %	D	70-130	1		05/15/09 18:47	460-00-4	
1,2-Dichloroethane-d4 (S)	125 %	b	70-130	1		05/15/09 18:47	17060-07-0	
Percent Moisture	Analytical Me	thod ASTM D2	2974-87					
Percent Moisture	32.9 %		0.10	1		05/18/09 12:45		

Date: 05/26/2009 02:06 PM

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CABOT-EPA 007930



Pace Analytical Services, Inc.

1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601

(724)850-5600

ANALYTICAL RESULTS

Project:

Sample: TB-3

TEEL#5

Pace Project No. 309918

Lab ID: 309918003

Collected 05/12/09 14:25 Received: 05/13/09 15:15 Matrix: Solid

Results reported on a "dry-weigh	nt" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV PA UST	. Analytical Me	thod: EPA 826	ס					
Benzene	ND u	g/kg	7 0	1		05/15/09 19:14	71-43-2	
Ethylbenzene	21.1 u	g/kg	70	1		05/15/09 19:14	100-41-4	
Isopropylbenzene (Cumene)	9.7 u	g/kg	7.0	1		05/15/09 19 14	98-82-8	
Methyl-tert-butyl ether	ND u	g/kg	7.0	1		05/15/09 19:14	1634-04-4	
Naphthalene	22.6 u	g/kg	70	1		05/15/09 19:14	91-20-3	
Toluene	ND u	g/kg	7.0	1		05/15/09 19 14	108-88-3	
1,2,4-Trimethylbenzene	133 u	g/kg	7.0	1		05/15/09 19 14	95-63-6	
1,3,5-Trimethylbenzene	52.1 u	g/kg	70	1		05/15/09 19:14	108-67-8	
Toluene-d8 (S)	98 %	D	70-130	1		05/15/09 19·14	2037-26-5	
4-Bromofluorobenzene (S)	102 %	, 1	70-130	1		05/15/09 19 14	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %	5	70-130	1		05/15/09 19:14.	17060-07-0	
Percent Moisture	Analytical Me	thod: ASTM D	2974-87					
Percent Moisture	30.3 %	,	0 10	1		05/18/09 12.45		

Date. 05/26/2009 02.06 PM

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CABOT-EPA 007931



Pace Analytical Services, Inc.

1638 Roseytown Road - Suites 2,3,4

Greensburg, PA 15601

(724)850-5600

ANALYTICAL RESULTS

Project:

TEEL#5

309918 Pace Project No.:

Sample: TB-4

Lab ID: 309918004

Collected: 05/12/09 14 35 Received: 05/13/09 15 15 Matrix: Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
8260 MSV PA UST	Analytical Met	thod: EPA 826	o					
Benzene	ND u	g/kg	73	1		05/15/09 19:42	71-43-2	
Ethylbenzene	ND u	g/kg	7.3	1		05/15/09 19:42	100-41-4	
Isopropylbenzene (Cumene)	ND u	g/kg	7.3	1		05/15/09 19:42	98-82-8	
Methyl-tert-butyl ether	ND us	g/kg	7.3	1		05/15/09 19:42	1634-04-4	
Naphthalene	ND u	g/kg	7.3	1		05/15/09 19 42	91-20-3	
Toluene	ND u	g/kg	73	1		05/15/09 19 42	108-88-3	
1,2,4-Trimethylbenzene	14.0 u	g/kg	7.3	1		05/15/09 19:42	95-63-6	
1,3,5-Trimethylbenzene	ND u	g/kg	7.3	1		05/15/09 19:42	108-67-8	
Toluene-d8 (S)	96 %	ó	70-130	1		05/15/09 19:42	2037-26-5	
4-Bromofluorobenzene (S)	103 %	о́	70-130	1		05/15/09 19 42	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %	6	70-130	1		05/15/09 19 42	17060-07-0	
Percent Moisture	Analytical Me	thod: ASTM D	2974-87					
Percent Moisture	38.9 %	ó	0.10	1		05/18/09 12 ⁻ 46		

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CABOT-EPA 007932



ANALYTICAL RESULTS

Project^{*}

TEEL#5

Pace Project No

Sample: TB-5

309918

Lab ID: 309918005

Collected: 05/12/09 14:43 Received 05/13/09 15:15 Matrix, Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual ——
8260 MSV PA UST	. Analytical Met	thod: EPA 826	0					
Benzene	ND ug	g/kg	8.3	1		05/15/09 20:09	71-43-2	
Ethylbenzene	ND ug	g/kg	83	1		05/15/09 20:09	100-41-4	
Isopropylbenzene (Cumene)	ND ug	g/kg	83	1		05/15/09 20:09	98-82-8	
Methyl-tert-butyl ether	ND uş	g/kg	83	1		05/15/09 20:09	1634-04-4	
Naphthalene	13.0 ug	g/kg	8.3	1		05/15/09 20:09	91-20-3	
Toluene	ND ug	g/kg	8.3	1		05/15/09 20:09	108-88-3	
1,2,4-Trimethylbenzene	8.5 ug	g/kg	83	1		05/15/09 20 09	95-63-6	
1,3,5-Trimethylbenzene	ND ug	g/kg	8 3	1		05/15/09 20 09	108-67-8	
Toluene-d8 (S)	96 %	b	70-130	1		05/15/09 20:09	2037-26-5	
4-Bromofluorobenzene (S)	107 %	, 5	70-130	1		05/15/09 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %	Ó	70-130	1		05/15/09 20:09	17060-07-0	
Percent Moisture	Analytical Mel	thod. ASTM D	2974-87					
Percent Moisture	45.9 %	, o	0.10	1		05/18/09 12 46		

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CABOT-EPA 007933



ANALYTICAL RESULTS

Project

TEEL#5

Pace Project No.: 309918 Sample: TB-6

Lab ID: 309918006

Collected: 05/12/09 14:53 Received 05/13/09 15:15 Matrix Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV PA UST	Analytical Met	thod: EPA 826	0					
Benzene	ND uş	g/kg ·	7 1	1		05/15/09 20:36	71-43-2	
Ethylbenzene	: ND ug	g/kg	7 1	1		05/15/09 20 36	100-41-4	
Isopropylbenzene (Cumene)	ND ug	g/kg	7.1	1		05/15/09 20 36	98-82-8	
Methyl-tert-butyl ether	ND uş	g/kg	7.1	1		05/15/09 20:36	1634-04-4	
Naphthalene	ND u	g/kg	7 1	1		05/15/09 20:36	91-20-3	
Toluene	ND u	g/kg	7.1	1		05/15/09 20 36	108-88-3	
1,2,4-Trimethylbenzene	ND u	g/kg	7.1	1		05/15/09 20.36	95-63-6	
1,3,5-Trimethylbenzene	ND u	g/kg	7 1	1		05/15/09 20:36	108-67-8	
Toluene-d8 (S)	95 %		70-130	1		05/15/09 20:36	2037-26-5	
4-Bromofluorobenzene (S)	106 %	,)	70-130	1		05/15/09 20 36	460-00-4	
1,2-Dichloroethane-d4 (S)	98. %	'n	70-130	1		05/15/09 20.36	17060-07-0	
Percent Moisture	Analytical Me	thod ASTM D	2974-87					
Percent Moisture	34.1 %	,	0.10	1		05/18/09 12:46		

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REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007934



Pace Analytical Services, Inc.

1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601

(724)850-5600

ANALYTICAL RESULTS

Project:

TEEL #5

Pace Project No.:

309918

Sample: TB-7

Lab ID: 309918007

Collected: 05/12/09 15:00 Received: 05/13/09 15:15 Matrix: Solid

Results reported on a "dry-weight	t" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV PA UST	. Analytical Met	hod: EPA 826	0					
Benzene	ND ug	g/kg	63	1		05/15/09 21.04	71-43-2	
Ethylbenzene	ND ug	g/kg	6.3	1		05/15/09 21:04	100-41-4	
Isopropylbenzene (Cumene)	ND ug	g/kg	6.3	1		05/15/09 21:04	98-82-8	
Methyl-tert-butyl ether	ND ug	g/kg	6.3	1		05/15/09 21 04	1634-04-4	
Naphthalene	ND u	g/kg	63	1		05/15/09 21 04	91-20-3	
Toluene	ND ug	g/kg	6.3	1		05/15/09 21.04	108-88-3	
1,2,4-Trimethylbenzene	ND us	g/kg	6.3	1		05/15/09 21:04	95-63-6	
1,3,5-Trimethylbenzene	ND us	g/kg	63	1		05/15/09 21:04	108-67-8	
Toluene-d8 (S)	95 %)	70-130	1		05/15/09 21:04	2037-26-5	
4-Bromofluorobenzene (S)	103 %	•	70-130	1		05/15/09 21 04	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %)	70-130	1		05/15/09 21.04	17060-07-0	
Percent Moisture	Analytical Me	thod: ASTM D	2974-87					
Percent Moisture	35.7 %)	0 10	1		05/18/09 12 47		

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CABOT-EPA 007935



Pace Analytical Services, Inc. 1638 Roseytown Road - Suites 2,3,4

Greensburg, PA 15601

(724)850-5600

ANALYTICAL RESULTS

Project.

TEEL#5

Pace Project No.: 309918

Sample: TB-8

Lab ID: 309918008

Collected: 05/12/09 15:05 Received: 05/13/09 15 15 Matrix: Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
8260 MSV PA UST	Analytical Me	thod: EPA 8260)					
Benzene	ND u	g/kg	56	1		05/15/09 21:31	71-43-2	
Ethylbenzene	. 15.5 u	g/kg	5.6	1		05/15/09 21:31	100-41-4	
Isopropylbenzene (Cumene)	11.2 u	g/kg	5.6	1		05/15/09 21 31	98-82-8	
Methyl-tert-butyl ether	ND u	g/kg	5.6	1		05/15/09 21:31	1634-04-4	
Naphthalene	47.8 u	g/kg	5.6	1		05/15/09 21:31	91-20-3	
Toluene	ND u	g/kg	5.6	1		05/15/09 21:31	108-88-3	
1,2,4-Trimethylbenzene	180 u	g/kg	56	1		05/15/09 21:31	95-63-6	
1,3,5-Trimethylbenzene	68.7 u	g/kg	5.6	1		05/15/09 21:31	108-67-8	
Toluene-d8 (S)	99 %	ó	70-130	1		05/15/09 21 31	2037-26-5	
4-Bromofluorobenzene (S)	103 %	6	70-130	1		05/15/09 21.31	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %	6	70-130	1		05/15/09 21:31	17060-07-0	
Percent Moisture	Analytical Me	thod ASTM D	2974-87					
Percent Moisture	32.9 %	,	0.10	1		05/18/09 12 47		

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CABOT-EPA 007936



ANALYTICAL RESULTS

Project.

TEEL#5

Pace Project No.. 309918

Sample: TB-9 Lab ID: 309918009

Collected: 05/12/09 15 15 Received 05/13/09 15 15 Matrix Solid

Results reported on a "dry-weigh	t" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV PA UST	.Analytical Mel	thod: EPA 826	0					
Benzene	ND ug	g/kg	6.7	1		05/15/09 21.59	71-43-2	
Ethylbenzene	15.4 ug	g/kg	6.7	1		05/15/09 21 59	100-41-4	
Isopropylbenzene (Cumene)	ND u	g/kg	6.7	1		05/15/09 21:59	98-82-8	
Methyl-tert-butyl ether	ND u	g/kg	67	1		05/15/09 21:59	1634-04-4	
Naphthalene	7.3 u	g/kg	67	1		05/15/09 21.59	91-20-3	
Toluene	ND u	g/kg	6.7	1		05/15/09 21.59	108-88-3	
1,2,4-Trimethylbenzene	31.3 u	g/kg	6.7	1		05/15/09 21:59	95-63-6	
1,3,5-Trimethylbenzene	11.2 u	g/kg	6.7	1		05/15/09 21 59	108-67-8	
Toluene-d8 (S)	96 %		70-130	1		05/15/09 21 59	2037-26-5	
4-Bromofluorobenzene (S)	104 %	•	70-130	1		05/15/09 21 59	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %	•	70-130	1		05/15/09 21 59	17060-07-0	
Percent Moisture	Analytical Me	thod ASTM D	2974-87					
Percent Moisture	31.3 %		0 10	1		05/18/09 12:48		

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REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007937



(724)850-5600

QUALITY CONTROL DATA

Project:

TEEL#5

Pace Project No .

309918

QC Batch:

MSV/2514

Analysis Method.

EPA 8260

QC Batch Method: EPA 8260 .

Analysis Description

8260 MSV UST-SOIL

Associated Lab Samples 309918001, 309918002, 309918003, 309918004, 309918005, 309918006, 309918007, 309918008, 309918009

METHOD BLANK 56767

Matrix. Solid

Associated Lab Samples: 309918001, 309918002, 309918003, 309918004, 309918005, 309918006, 309918007, 309918008, 309918009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	50	05/15/09 17:52	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/15/09 17·52	
Benzene	ug/kg	ND	50	05/15/09 17.52	
Ethylbenzene	ug/kg	ND	50	05/15/09 17:52	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/15/09 17 52	
Methyl-tert-butyl ether	ug/kg	ND	50	05/15/09 17 52	
Naphthalene	ug/kg	ND	50	05/15/09 17:52	
Toluene	ug/kg ·	ND	5.0	05/15/09 17:52	
1,2-Dichloroethane-d4 (S)	%	108	70-130	05/15/09 17 52	
4-Bromofluorobenzene (S)	%	108	70-130	05/15/09 17:52	
Toluene-d8 (S)	%	93	70-130	05/15/09 17:52	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	20.6	103	70-130	
1,3,5-Trimethylbenzene	ug/kg	20	21.2	106	70-130	
Benzene	ug/kg	20	19 4	97	70-130	
Ethylbenzene	ug/kg	20	21.3	106	70-130	
Isopropylbenzene (Cumene)	ug/kg	20	23.0	115	70-130	
Methyl-tert-butyl ether	ug/kg	20	17.5	87	70-130	
Naphthalene	u g/kg	20	19.4	97	70-130	
Toluene	u g/kg	20	21.0	105	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007938



QUALITY CONTROL DATA

Project

TEEL#5

Pace Project No.:

309918

QC Batch.

PMST/1273

Analysis Method

ASTM D2974-87

QC Batch Method:

ASTM D2974-87

Analysis Description:

Dry Weight/Percent Moisture

Associated Lab Samples 309918001, 309918002, 309918003, 309918004, 309918005, 309918006, 309918007, 309918008, 309918009

Result

SAMPLE DUPLICATE: 56816

%

309931001 Dup

Result

RPD Qualifiers

Percent Moisture

Units %

6.7

6.9

SAMPLE DUPLICATE: 56817

Parameter

Parameter

309931002

Dup

RPD

Qualifiers

Percent Moisture

Units

Result 9.4 Result 9.6

Date: 05/26/2009 02:06 PM

REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007939



QUALIFIERS

Project:

TEEL #5

Pace Project No :

309918

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazıne (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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REPORT OF LABORATORY ANALYSIS

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CABOT-EPA 007940



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

TEEL#5

Pace Project No.:

309918

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
309918001	TB-1	EPA 8260	MSV/2514		
309918002	TB-2	EPA 8260	MSV/2514		
309918003	TB-3	EPA 8260	MSV/2514		
309918004	TB-4	EPA 8260	MSV/2514		
309918005	TB-5	EPA 8260	MSV/2514		
309918006	TB-6	EPA 8260	MSV/2514		
309918007	TB-7	EPA 8260	MSV/2514		
309918008	TB-8	EPA 8260	MSV/2514		
309918009	TB-9	EPA 8260	MSV/2514		
309918001	TB-1	ASTM D2974-87	PMST/1273		
309918002	TB-2	ASTM D2974-87	PMST/1273		
309918003	TB-3	ASTM D2974-87	PMST/1273		
309918004	TB-4	ASTM D2974-87	PMST/1273		
309918005	TB-5	ASTM D2974-87	PMST/1273		•
309918006	TB-6	ASTM D2974-87	PMST/1273		
309918007	TB-7	ASTM D2974-87	PMST/1273		
309918008	TB-8	ASTM D2974-87	PMST/1273		
309918009	TB-9	ASTM D2974-87	PMST/1273		

Date: 05/26/2009 02:06 PM

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CABOT-EPA 007941

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Sample Condition Upon Receipt URS Project # 309918 Client Name: Courter: Fed Ex UPS USPS Chent Commercial Q Pace) Other Optional Proj. Due Date: Tracking #: Proj. Name: Custody Seal on Cooler/Box Present: yes 1 no Seals intact ☐ yes _ no Packing Material: Bubble Wrap Bubble Bags None Other Samples on ice, cooling process has begun Thermometer Used Type of ice: Wet Blue None Date and initials of person examining contents: 513 Biological Tissue is Frozen: Yes Cooler Temperature Comments: Temp should be above freezing to 6°C ZYes DNO JNA 1. Chain of Custody Present: TYES TINO TINA Chain of Custody Filled Out: (TYES) ONO ONA 3 Chain of Custody Relinquished: ZYES ONO ONA Sampler Name & Signature on COC: TYES DNO DNIA Samples Arrived within Hold Time: Dyes (ONG) ONIA Short Hold Time Analysis (<72hr): Dyes (ONG) ONIA Rush Turn Around Time Requested: Sufficient Volume: DYes DNO DNIA Correct Containers Used: CYCS) DNO DNA 9. -Pace Containers Used: Ciyes) Ono Onia (TYES) DNG DNA 10. Containers Inlact: OYes (INO) ONIA 11. Filtered volume received for Dissolved tests QYes DNO DNA 12. Sample Labels match COC: 51 -Includes date/fime/ID/Analysis All containers needing preservation have been checked. CYES DNO DNA 13. All containers needing preservation are found to be in Yes UNO UNIA compliance with EPA recommendation. Initial when of # of added Car OYES DINO exceptions VOA, conform, TOC, OSG, WI-DRO (water) preservative Dyes DNo (DNA Samples checked for dechlorination: Headspace in VOA Vials (>6mm); ☐Yes (☐No) □N/A Trip Blank Present UYes (DNo) DNA Trip Blank Custody Seals Present CYCS ONO ONA Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution: Field Data Required? Person Contacted: Comments/ Resolution; Project Manager Review:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of lemp, incorrect contellners)

F-ALLC003-3, 11September2006

APPENDIX D

DISPOSAL DOCUMENTATION RELEASE CLEANUP MATERIALS

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